Service Manual

TV/DVD Combination



PbF Solder Lead free

PV-20DF64 PV-27DF64 PV-27DF4 PV-20DF64-K PV-27DF64-K

ITE	ITEM SPECIFICATION		1	2	ITE	M	SPECIFICATION		2	
		Source: 120 V AC±12 V AC, 60 Hz±3 Hz	С	C	DISPLAY	Picture	20 inch measured diagonal pure flat Picture Tube	0		
	Power	Consumption: Approx. 113 W (Power on), Approx. 1.5 W (Power off) Consumption: Approx. 146 W (Power on), Approx. 1.5 W (Power off)		-	1	Tube	27 inch measured diagonal pure flat Picture Tube	L	0	
	Television System	EIA Standard (525 lines, 60 fields) NTSC Color Signal	T	0	1		(1) DVD disc(DVD-VIDEO, DVD-R): 12 cm (5 inch) single-sided, single-layer 12 cm (5 inch) single-sided, double-layer			
GENERAL	Speaker	2 pieces 3 W 2 pieces 5 W	0	0		D.	12 cm (5 inch) double-sided, double-layer (one layer per side) 8 cm (3 inch) single-sided, single-layer			
	Operating Condition	5 "C-35 "C (41 "F-95 "F) (Temperature) 10 %-75 % (Humidity)	С	C		Discs Played	8 cm (3 inch) single-sided, double-layer 8 cm (3 inch) double-sided, double-layer		0	
	Dimensions (W x H x D)	604 mm x 523 mm x 503 mm (23-3/4 inch x 20-5/8 inch x 19-3/4 inch) 760 mm x 645 mm x 511 mm (29-7/8 inch x25-3/8 inch x 20-1/8 inch)	0	0	DVD		(one layer per side) (2) DVD-RAM: 12 cm (5 inch) 9.4 GB (double-sided) and 4.7 GB (single-sided)			
	Weight	28 kg (61.7 lbs.) 48 kg (105.8 lbs.)	0) – C			12 cm (5 inch) 9.4 GB (double-sided) and 4.7 GB (single-sided) 8 cm (3 inch) 2.8 GB (double-sided) (3) Compact disc(CD-DA, VIDEO CD, CD-R, CD-RW): 12 cm (5 inch) disc, 8 cm (3 inch) disc			
	Broadcast Channels	VHF 2~13, UHF 14~69	С	C		Digital Audio	Optical digital output: Optical connector	0	0	
TUNED		Midband A through I (14~22) Superband J through W (23~36)				Output		L		
TUNER	CABLE Channels	Hyperband AA~EEE (37~64) Lowband A-5~A-1 (95~99)	С	C		Pickup	Wavelength: 655 nm (DVD), 790nm (Video CD/CD) Laser power: CLASS II	0	0	
		Special CABLE channel 5A (01) Ultraband 65-94, 100~125				Solder	This model uses lead free solder (PbF).	0	0	

- 1. PV-20DF64/ PV-20DF64-K
- 2. PV-27DF63/ PV-27DF4/ PV-27DF64-K

Weight and dimensions shown are approximate.

Designs and specifications are subject to change without notice.



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MARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 SAFETY PRECAUTIONS

1.1. GENERAL GUIDELINES

1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

- 2. An Isolation Transformer should always be used during the servicing of Combination TV/DVD whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect Combination TV/DVD from being damaged by accidental shorting that may occur during servicing.
- 3. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shield, and isolation R-C combinations are properly installed.
- 5. Before turning the receiver on, measure the resistance between B+ line and chassis ground. Connect (-) side of an ohmmeter to the B+ lines, and (+) side to chassis ground. Each line should have more resistance than specified, as follows:

B+ Line Minimum Resistance 130 V 110 Ω (Cold chassis ground) 28 V 180 Ω (Cold chassis ground) 220 V 1 k Ω (Cold chassis ground)

- 6. When the TV set is not used for a long period of time, unplug the power cord from the AC outlet.
- 7. Potentials, as high as 33.0 kV is present when this TV set is in operation. Operation of the TV set without the rear cover involves the danger of a shock hazard from the TV set power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the CRT ground of receiver before handling the tube.
- After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. For physically operated power switches, turn power on. Otherwise skip step 2.
- 3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screwheads, connectors, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 M Ω and 12 M Ω . When the exposed metal does not have a return path to the chassis, the reading must be infinity.

1.3. LEAKAGE CURRENT HOT CHECK

- Plug the AC cord directly into the AC outlet.
 Do not use a isolation transformer for this check.
- 2. Connect a 1.5 k Ω , 10 W resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1 k Ω /V or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 V RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks. Leakage current must not exceed 1/2 mA. In case a measurement is outside of the limits specified, there is a possibility of shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

Hot-Check Circuit

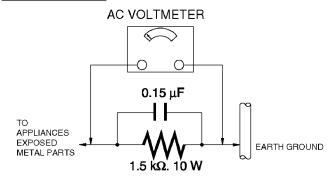


Figure 1

2 X-RADIATION

WARNING:

- The potential source of X-Radiation in TV sets is the High Voltage section and the picture tube.
- 2. When using a picture tube test fixture for service, ensure that the fixture is capable of handling 33.0 kV without causing X-Radiation.

NOTE:

It is important to use an accurate periodically calibrated high voltage meter.

- 1. Reduce the brightness to minimum.
- 2. Set the SERVICE switch to SERVICE .
- 3. Measure the High Voltage. The meter reading should indicate 28.0 kV±1.5 kV (For model with 20 inch CRT), 31.0 kV±2.0 kV (For model with 27 inch CRT).
 - If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- 4. To prevent an X-Radiation possibly, it is essential to use the specified picture tube.

2.1. HORIZONTAL OSCILLATOR DISABLE CIRCUIT TEST

SERVICE WARNING:

The test must be made as a final check before set is returned to the customer.

CONFIRMATION OF X-RAY MOVEMENT

- 1. Turn off TV set.
- Connect the circuit below between TP554 and TP555 on the TV Main C.B.A.

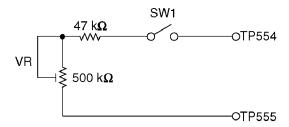


Figure 2

- 3. Turn on SW1 and then turn on the set. Confirm that the picture is on the screen properly.
- 4. Confirm that the picture goes out of horizontal sync while getting down by varying VR.
- 5. If this does not occur, it means that X-ray protect circuit is not operating. Further confirmation and repair is required.

2.2. REPAIR PROCEDURES OF HORIZONTAL OSCILLATOR DISABLE CIRCUIT

- Connect a DC voltmeter between capacitor C513 (+) on the Main circuit board and chassis ground.
- 2. If approximately +21.5 V (For model with 20 inch CRT), +20.0 V (For model with 27 inch CRT) is not present at that point when 120 V AC is applied, find the cause. Check R508, R503, R5505, C5507, C513 and D503.
- 3. Carefully check above specified parts and related circuits and parts. When the circuit is repaired, try the horizontal oscillator disable circuit test again.

2.3. CIRCUIT EXPLANATION

2.3.1. HORIZONTAL OSCILLATOR DISABLE CIRCUIT

The positive DC voltage, supplied from the D503 cathode for monitoring high voltage, is applied to the IC5301 Pin 11 through R508 and R5504. Under normal conditions, the voltage at IC5301 Pin 11 is less than approx. 6 V. If the high voltage at Flyback Transformer Pin 5 exceeds the specified voltage, the positive DC voltage which is supplied from the D503 cathode also increases. The increased voltage is applied to IC5301 Pin 11 through R503 and R5504. Due to the increased voltage at IC5301 Pin 11, the horizontal oscillator frequency increases, the picture goes out of horizontal sync, the beam current decreases and the picture become dark in order to keep X-radiation under specification.

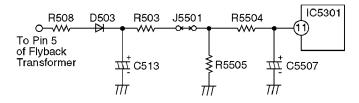


Figure 3

2.4. LASER PRODUCT

CLASS I LASER PRODUCT

 This equipment is certified to comply with DHHS Rules 21 CFR Chapter 1, Subchapter J in effect as of date of manufacture. (Only for U.S.A.)

This equipment is classified as a Class I (Class 1) level LASER Product and there is no hazardous LASER radiation with the safety protection.

Caution:

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Never touch the internal parts in order to avoid EXPOSURE TO VISIBLE LASER RADIATION.

Unplug the AC power cord to the equipment when opening the top cover.

When the power switch is On, do not place your eyes close to the front panel opening door or the other openings to look into the interior unit.

LASER Specification

Class I level A LASER Product (Class 1 level A LASER Product)

Wave Length: 647 - 677 nm (at DVD)

775 - 815 nm (at CD)

Laser Power: No hazardous radiation is emitted with

the safety protection.

2.5. PRECAUTION OF LASER DIODE

CAUTION:

This unit utilizes a class III a laser. Visible laser radiation is emitted from the optical pickup lens when the unit is turned on:

- 1. Do not look directly into the pickup lens.
- 2. Do not use optical instruments to look at the pickup lens.
- 3. Do not adjust the preset variable resistor on the optical pickup.
- 4. Do not disassemble the optical pickup unit.
- 5. If the optical pickup is replaced, use the manufactures specified replacement pickup only.
- 6. Use of control or adjustment or performance of procedures other than those specified herein may result in hazardous radiation exposure.

3 PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors are semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION:

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

"NOTE to CATV system installer :

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

4 ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB. (Please refer to figures.)



Printed case

CAUTION:

- Pb free solder has a higher melting point than standard solder;
 Typically the melting point is 50 °F 70 °F (30 °C 40 °C) higher.
 Please use a soldering iron with temperature control and adjust it to 700 °F±20 °F (370 °C± 10 °C).
 In case of using high temperature soldering iron, please be carefull not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100 °F/600 °C).
- All products with the printed circuit board with PbF stamp or printing must be serviced with lead free solder.
 When soldering or unsoldering, completely remove all of the solder from the pins or solder area, and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

Recommendations

Recommended lead free solder composition is Sn96.5 Ag3.0 Cu0.5.

5 SERVICE NOTES (PLEASE READ)

5.1. SERVICE NOTES

5.1.1. SIMPLIFIED FAULT FINDING DATA

Simplified Self-Diagnostic System facilitates finding the cause of the fault. The Communication for I²C bus code will be displayed on the TV screen.

The Simplified Fault finding data is stored in the Memory IC (IC6004). This data is cleared after it is displayed, and then the POWER button is pressed back on.

1. With power turned off, press PLAY and SKIP+ buttons on the unit together for over 3 seconds.

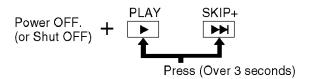


Fig. 1-1

2. TV power comes on and the unit goes into service mode.

The Communication for I²C bus code will be displayed.

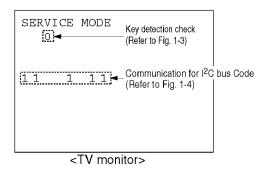
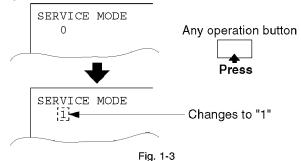


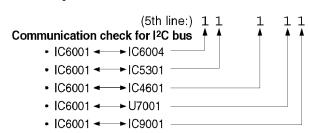
Fig. 1-2

Key detection check



Note:

Press any operation button except for POWER or PLAY buttons on either the unit, or DVD key on the remote to detect that a key has been pressed. The 3rd digit changes to "1" only when key is detected.



Explanation of Codes	Code No.					
Communication check for I²C bus (IC6001 ←→ IC6004) NG OK	0					
Communication check for I²C bus (IC6001 →+ IC5301) NG OK		0				
Communication check for I²C bus (IC6001← ► IC4601) NG OK				0		
Communication check for I²C bus (IC6001→ U7001) NG OK					0	
Communication check for I²C bus (IC6001← ► IC9001) NG OK						0

Fig. 1-4

5.1.2. USAGE SCREEN MODE

This function is displayed on the TV monitor:

- the total AC plugged in AC socket (in days)
- the total elapsed "DVD play" time (in hours).
- 1. With power turned, press STOP button on the unit and 7 key on the remote together.

The USAGE SCREEN will be displayed on the TV Monito.

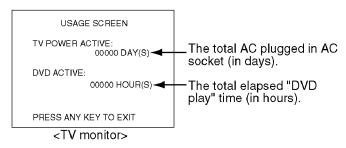


Fig. 2

Note:

- After replacing the DVD Unit, press ADD/DLT button on remote in this mode. Only Total elapsed time "DVD Play" time (in hours) will be cleared to 0.
- 2. To release from Usage Screen Mode, press any operation button or insert a cassette tape in this mode. The unit will return to normal operation mode.

5.1.3. GROUNDING FOR ELECTROSTATIC BREAKDOWN

Prevention

1. Human body grounding

Use the antistatic wrist strap to discharge the static electricity from your body.

2. Work table grounding

Put a conductive material (sheet) or steel sheet on the area where the optical pickup is placed and ground the sheet.

Caution:

The static electricity of your clothes will not be grounded through the wrist strap. So take care not to let your clothes touch the optical pickup.

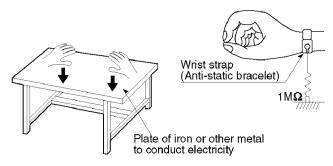


Fig. 3

5.1.4. METHOD FOR EJECTING THE DVD TRAY MANUALLY

- 1. Insert a Screwdriver or similar object into the Eject hole.
- 2. Press it gently, and then pull the Tray fully out.

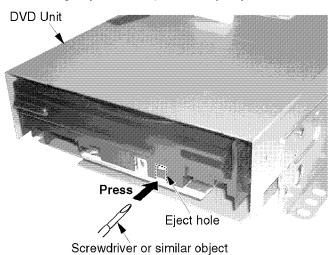


Fig. 4

5.1.5. DVD SERVICE MODE

This unit has a Self-Diagnostic function which detects a problem or malfunction within the unit and displays on the TV screen.

5.1.5.1. How to enter DVD Service Mode

- 1. Set the unit to DVD mode.
- 2. Press and hold STOP, SKIP+, and VOL- buttons on the unit together for over 5 seconds. The adjustment overlay will appear on the TV screen.

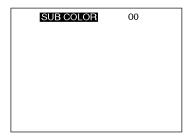


Fig. 5-1

Press DISPLAY key on the remote control to enter the DVD Service Mode.

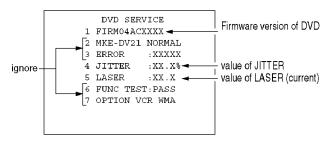


Fig. 5-2

- 4. To confirm the value of JITTER and the value of LASER (current), insert the DVD Test Disc into the DVD Unit.
- 5. To release from this mode, turn off the power.

5.1.5.2. Troubleshooting hint (standard) for this mode

It can be determine if the DVD Mechanism Unit is defective by checking the value of JITTER and the value of LASER (current).

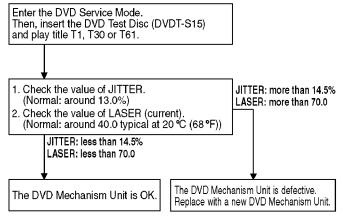


Fig. 5-3

5.1.6. SERVICE POSITION

Service Position	Purpose			
Service Position (1)	TV Main C.B.A. check Electrical adjustment			
Service Position (2)	Power Supply C.B.A. check			
Service Position (3)	DVD Main C.B.A. check			
Service Position (4)	Main C.B.A. check			

CAUTION:

HOT CIRCUIT (Primary circuit) exists on the Power Supply C.B.A. and the TV Main C.B.A.

Use extreme care to prevent accidental shock when servicing.

5.1.6.1. How to make Service Position for Combination TV/DVD models

To make these Service Position, the following 2 Extension Cables are necessary.

• Extension Cable 16P	LSUA0048
P4801 (Main C.B.A.) ~ P8401 (DVD Main C.B.A.) • Extension Cable 19P	LSUA0049
	LOUAUU49
P5401 (Main C.B.A.) ~ P501 (TV Main C.B.A.)	

5.1.6.1.1. Service Position (1)

1. Remove the Rear Cover. Then, pull the DVD Ass'y and turn the DVD Ass'y to the right.

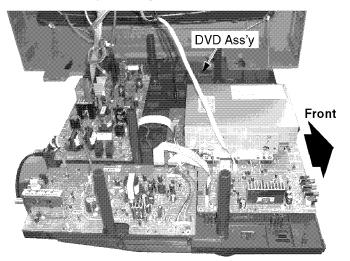


Fig. 6-1

2. Raise the TV Main C.B.A.

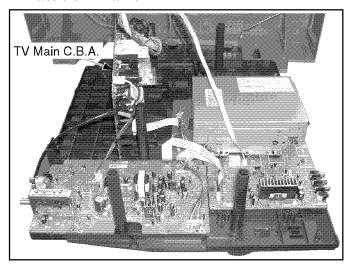


Fig. 6-2

5.1.6.1.2. Service Position (2)

- 1. Perform step 1 in Service Position (1) as shown in Fig. 6-1.
- 2. Raise the Power Supply C.B.A.

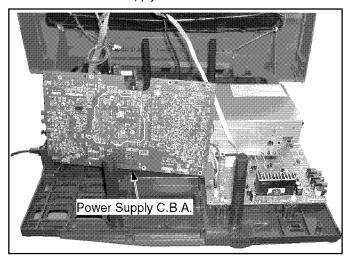


Fig. 6-3

5.1.6.1.3. **Service Position (3)**

- 1. Perform step 1 in Service Position (1) as shown in Fig. 6-1.
- 2. Remove the DVD Unit, and connect the DVD Unit using the Extension Cable 16P.

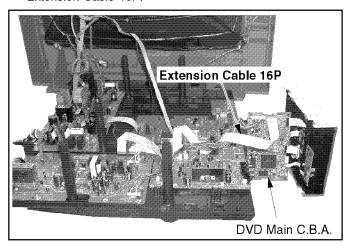


Fig. 6-4

5.1.6.1.4. Service Position (4)

- 1. Perform step 1 in Service Position (3) as shown in Fig. 6-4.
- 2. Remove the Main C.B.A. and connect the Main C.B.A. using the Extension Cable 19P.

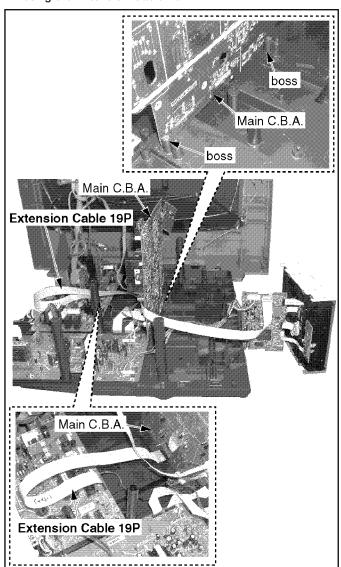


Fig. 6-5

5.1.7. HOT CIRCUIT

Primary circuit exists on the Power Supply C.B.A. and the TV Main C.B.A.

This circuit is identified as " **HOT** " on the C.B.A. and in the Service Manual. Use extreme care to prevent accidental shock when servicing.

5.1.8. F.F.C. CONNECTION NOTE

5.1.8.1. F.F.C. between the DVD Unit (DVD Main C.B.A.) and the Main C.B.A.

Be careful with the direction of F.F.C. to connector as shown.

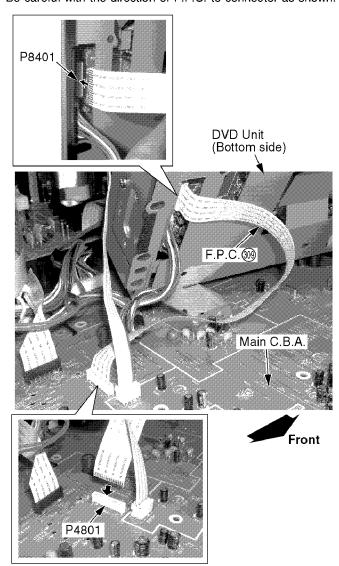


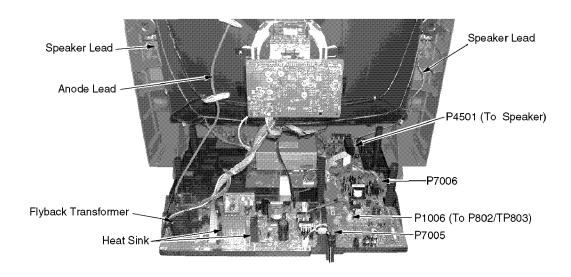
Fig. 7

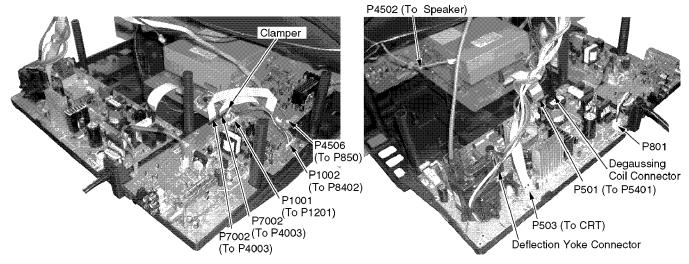
5.1.9. WIRE AND LEAD POSITION DIAGRAM

After servicing, make sure that all wires, leads, and clampers are placed in their original position. It is important for the best operation of the unit.

Note:

No lead wires or flat cables should touch any heating parts or the Heat Sink Plate. Use extreme care especially for followings.





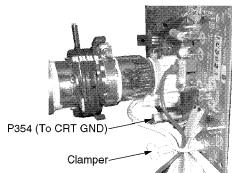


Fig. 8

5.1.10. HOW TO RESET ALL COMBINATION TV/DVD MEMORY FUNCTIONS

To reset (clear) the select language, channel auto set and set clock functions to their initial power on condition, hold down the PLAY and SKIP- buttons of operation panel on the unit together for more than 5 seconds.

Power will shut off.

5.1.11. HOW TO CONFIRM AUTO CLOCK SET FEATURE

- Connect an RF cable from the output of one unit to the input of the test unit.
- 2. Select corresponding RF channels.
- 3. Playback a recording of P.B.S. channel including clock set data and confirm this feature.

5.1.12. VARIABLE VOLTAGE ISOLATION TRANSFORMER

An Isolation Transformer should always be used during the servicing of Combination TV/DVD whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect Combination TV/DVD from being damaged by accidental shorting that may occur during servicing.

Also, when troubleshooting the above type of Power Supply Circuit, a variable isolation transformer is required in order to increase the input voltage slowly.

5.1.13. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

5.1.14. MODEL NO. IDENTIFICATION MARK

Use Marks shown in the chart below to distinguish the different models included in this Service Manual.

MODEL	MARK
PV-20DF64	Α
PV-27DF4	В
PV-27DF64	С
PV-20DF64-K	D
PV-27DF64-K	Е
Not Used	PT

Note

Refer to Item 3 of Schematic Diagram Notes of Schematic Diagram and Circuit Board Layout Notes, for mark "PT."

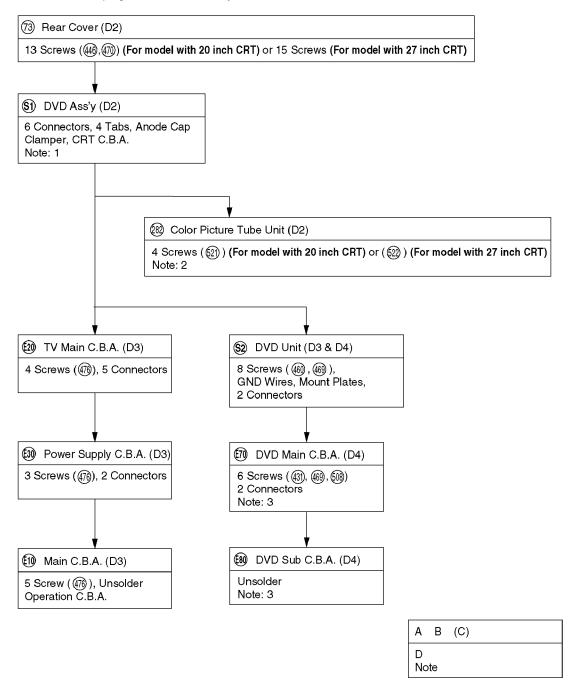
6 DISASSEMBLY/ASSEMBLY PROCEDURES

6.1. CABINET SECTION

6.1.1. Disassembly Flowchart

Perform all disassembly procedures in the order described in reassembling, use the reverse procedure. the "Disassembly Flowchart" shown below. When **CAUTION:**

Disconnect AC plug before disassembly.



A: Ref No.

B: Part to be removed or installed.

C: Fig No.

D: Identification of part to be removed, unlocked, released, unplugged or unsoldered.

Note: Refer to "Notes in chart."

Fig. D1

Note: Parts with no Ref. No. in "EXPLODED VIEWS" are not supplied.

And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.

IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

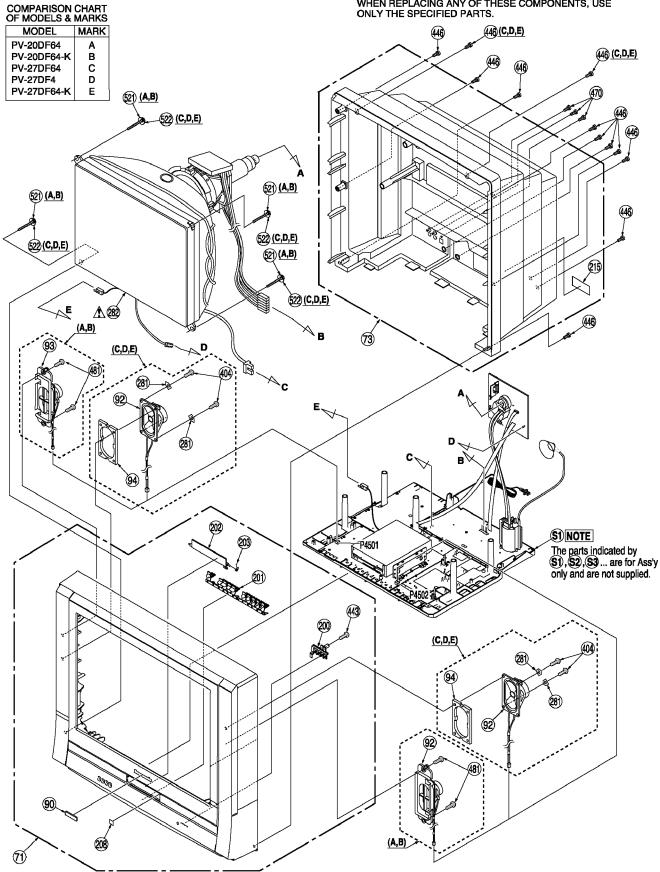


Fig. D2

IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE
ONLY THE SPECIFIED PARTS.

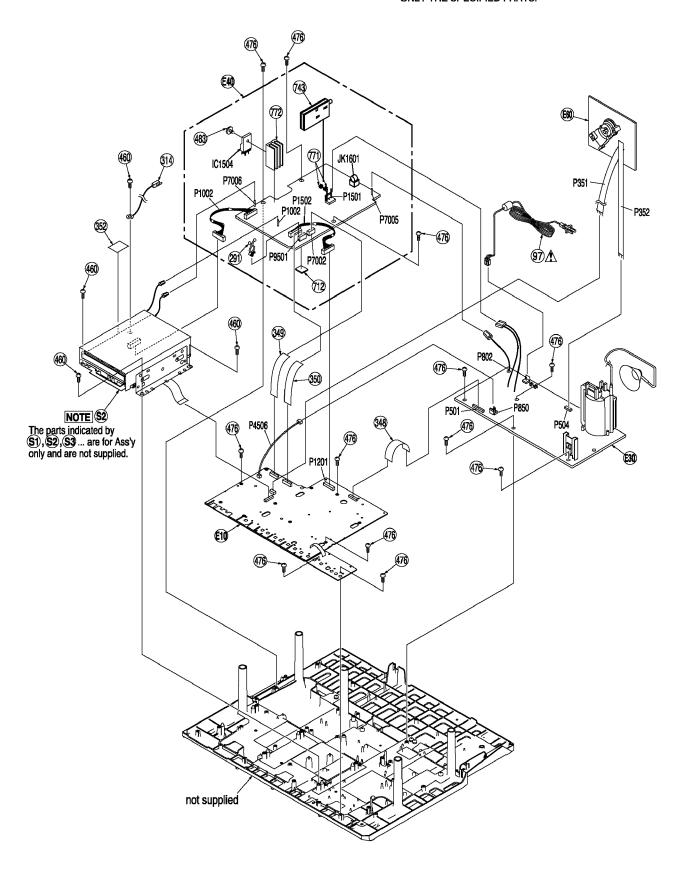
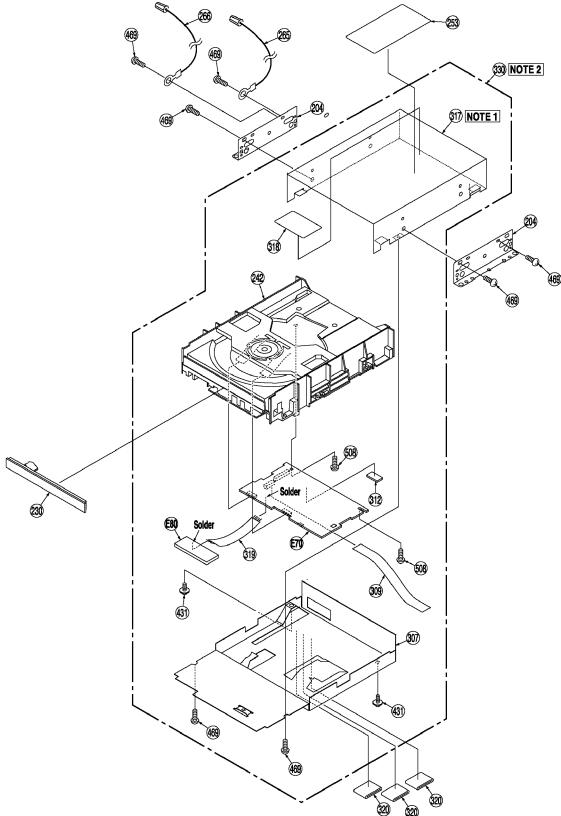


Fig. D3



NOTE 1: When replacing the DVD Frame (Ref. No. 317), be sure to place the Rating Label (Ref. No. 318) and the Cabinet Label (Ref. No. 253) on it.

 $\hline \textbf{NOTE 2} \textbf{:} \ \ \textbf{When replacing the DVD Mechanism Unit (Ref. No. 330) , be sure to place the Cabinet Label (Ref. No. 253) on it. } \\$

6.1.1.1. Notes in chart

1. Removal of DVD Ass'y

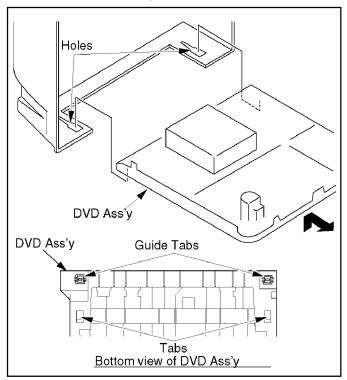


Fig. D5

2. Removal of Color Picture Tube Unit

Place the Unit face down on a soft cloth before removing the Color Picture Tube Unit.

3. Removal of DVD Sub C.B.A.

- a. Remove solder portions "a," "b," and "c" on the DVD Sub C.B.A.
- b. Remove the DVD Sub C.B.A. while releasing the Locking Tab.

Installation of DVD Main C.B.A. and DVD Sub C.B.A.

- a. Confirm that the Lever A is positioned as shown, and install the DVD Sub C.B.A. with the Locking Tab and 2 bosses.
- b. Install the DVD Main C.B.A. with the Locking Tab and the rib.
- c. Solder portions "a," "b," "c" and "d" on the C.B.A.

Note:

Solder portions "a" and "b" while pushing down the DVD Sub C.B.A. securely.

- d. Connect the F.F.C.s to Connectors P8901, P8801 on the DVD Main C.B.A.
- e. Tighten the 2 Screws (508).

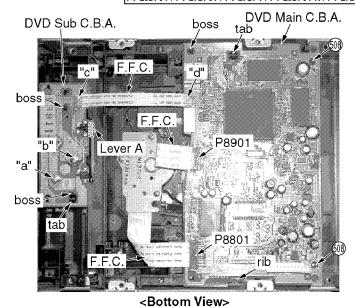


Fig. D6

7 ADJUSTMENT PROCEDURES

7.1. SERVICE FIXTURES AND TOOLS

DVDT-S01 DVD Test Disc DVDT-S15	LSUA0048	Extension Cable 16P	LSUA0049	Extension Cable 19P
	<i><</i>			

7.2. ELECTRICAL ADJUSTMENT

NOTE:

Following Adjustments have been preadjusted at factory and are not required.

- Purity Adjustment
- Convergence Adjustment

7.2.1. TEST EQUIPMENT

To do all of these electrical adjustments, the following equipment is required.

1. Dual-Trace Oscilloscope

Voltage Range: 0.001 V to 50 V/Div. Frequency Range: DC to 50 MHz

Probes: 10:1, 1:1

2. NTSC Video Pattern Generator

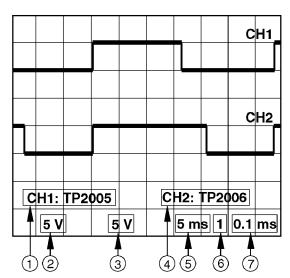
3. DVM (Digital Volt Meter)

4. MTS/SAP Signal Generator

(TV Multi-Channel Sound Modulator (U.S.A.))

- 5. Isolation Transformer (Variable)
- 6. Degaussing Coil
- 7. White Pattern Generator
- 8. Audio Generator

7.2.2. HOW TO READ THE ADJUSTMENT PROCEDURES



- 1. Connecting Point
- 3. Volts/DIV
- 5. Time/DIV
- 7. Time/DIV for Delay
- 2. Volts/DIV
- 4. Connecting Point
- 6. Trigger Channel of the Scope
 - 1 : CH1
 - 2: CH2

Fig. E1

7.2.3. EVR (Electronic Variable Register) ADJUSTMENT WITH THE REMOTE CONTROL

This unit has electronic technology using I²C Bus concept.

The following control functions are adjusted by using "On Screen Displays" and the remote control instead of adjusting mechanical controls (VR).

		I	
	※ 1		
Control functions	Address	Range	Default
SUB COLOR	00	C0 - FF, 00 - 3F	00
SUB TINT	01	E0 - FF, 00 - 1F	00
SUB BRIGHT	02	C0 - FF, 00 - 3F	F0
CONTRAST	03	C1 - FF, 00	00
SUB SHARPNESS	04	E0 - FF, 00 - 1F	F0
R CUT -OFF	05	00 - 7F	1E
G CUT -OFF	06	00 - FD	3C
B CUT -OFF	07	00 - FD	3C
G DRIVE	08	00 - 7F	40
B DRIVE	09	00 - 7F	40
SUB CONTRAST	0A	00 - 0F	06
H-CENTER	0B	00 - 0F	08
V SIZE	0D	00 - 7F	40
V POSITION	0E	00 - 1F	02
ANR	10	00 - FD	85
PIC	11	00 - FD	42
VV COLOR	12	C0 - FF, 00 - 3F	05
VV TINT	13	E0 - FF, 00 - 1F	04
VV SHARPNESS	14	E0 - FF, 00 - 1F	FB
US/CANADA	18	00 - 01	00/01

Bold-faced letters → Control functions which need to be adjusted. Note:

§ 1 Address is not displayed on the TV screen.
Other Addresses except above are not used.

7.2.4. EVR ADJUSTMENT ITEM

The following Items need to be adjusted for EVR adjustment.

- SUB CONTRAST ADJUSTMENT
- FOCUS, SCREEN, CUT OFF, DRIVE ADJUSTMENT
- SUB COLOR/SUB TINT ADJUSTMENT
- DEFLECTION DISTORTION CORRECTION ADJUSTMENT
- WHITE BALANCE ADJUSTMENT
- SUB BRIGHTNESS ADJUSTMENT

7.2.5. HOW TO ENTER EVR ADJUSTMENT MODE

Press and hold STOP, SKIP + and VOL - buttons on the unit together over 5 seconds.

The adjustment overlay will appear to Enter EVR adjustment mode.

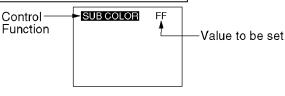


Fig. E2-1

7.2.5.1. How to adjust:

1. Press UP/DOWN ▲ ▼ key on the remote control to select control function to be adjusted.

Important Note:

Make a note of the original value of the controls before modifying in case the wrong control is adjusted.

2. Press RIGHT/LEFT ◀ ▶ key on the remote control so that the shaded area moves to the value.

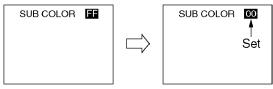


Fig. E2-2

3. Press UP/DOWN ▲ ▼ key on the remote control to adjust the value of the selected control.

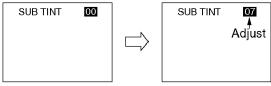


Fig. E2-3

Note:

You can select a desired channel by using the numbered keys on the remote control in EVR adjustment mode.

4. Press RIGHT/LEFT ◀ ▶ key on the remote control so that the shaded area moves to the control function.

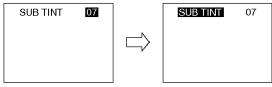


Fig. E2-4

5. Press UP/DOWN ▲ ▼ key on the remote control to select a control function for the next adjustment if necessary.

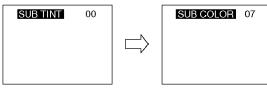


Fig. E2-5

7.2.5.2. How to release from EVR Adjustment Mode:

Press and hold STOP, SKIP + and VOL - buttons on the unit together over 5 seconds again or press the POWER button

7.2.5.3. HOW TO ENTER SERVICE MODE

- 1. Set the unit to TV Mode.
- 2. Enter EVR adjustment mode.
- Press DISPLAY key on the remote control for collapse scan.

Note:

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value for adjustments you will proceed.

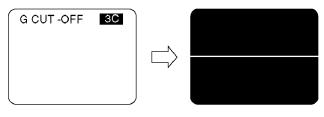


Fig. E2-6

7.2.5.4. How to release from Service Mode:

Press DISPLAY key again on the remote control.

7.2.6. SUB CONTRAST ADJUSTMENT

Purpose: To set the optimum sub contrast level. Symptom of The picture is too dark or too light.

Misadjustment:

Test Point: TP49 (CRT C.B.A.)

Adjustment: SUB CONTRAST (EVR),

Specification: Refer to descriptions below.

Input: Video Input Jack,

Crosshatch Pattern Signal 1 V[p-p] (75 Ω

terminated)

Mode: STOP

Equipment: Oscilloscope,

NTSC Video Pattern Generator

- 1. Supply a Crosshatch Pattern Signal to the Video Input Jack.
- 2. Connect the Oscilloscope to TP49 on the CRT C.B.A. (Use TP47 for GND.)
- 3. Select SUB BRIGHT in EVR adjustment mode. Then, after making a note of the original value, adjust to the (C0).
- 4. Select SUB CONTRAST in EVR adjustment mode and adjust so that the level A is (3.0 V[p-p]±0.1 V[p-p]: For model with 20 inch CRT), or (3.15 V[p-p]±0.1 V[p-p]: For model with 27 inch CRT).
- 5. Select SUB BRIGHT in EVR adjustment mode and reset to the original value.

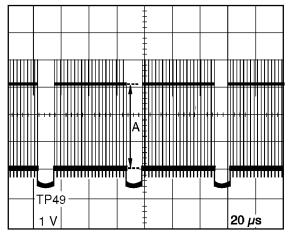


Fig. E3

7.2.7. FOCUS, SCREEN, CUT OFF, DRIVE ADJUSTMENT

Purpose: To set the optimum Screen.

Symptom of The picture is will be an improper screen

Misadjustment: color mix.

Test Point : TP50 (CRT C.B.A.)
Adjustment : FOCUS CONTROL

(Flyback Transformer),

SCREEN CONTROL (Flyback

Transformer),

SUB BRIGHT (EVR),

G DRIVE (EVR), B DRIVE (EVR),

R CUT-OFF (EVR), G CUT-OFF (EVR), B CUT-OFF (EVR)

Specification: Refer to descriptions below.

Input: Video Input Jack,

Crosshatch Pattern Signal, Monoscope Pattern Signal

Mode: STOP

Equipment: Oscilloscope,

NTSC Video Pattern Generator

- 1. Supply a Crosshatch Pattern Signal to the Video Input Jack.
- 2. Adjust the FOCUS CONTROL on the Flyback Transformer so that the "a" and "b" are the sharpest.

Horizontal Center Line

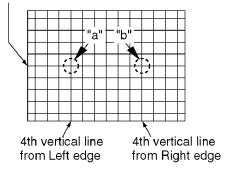


Fig. E4-1

- 3. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 4. Connect the Oscilloscope to TP50 on the CRT C.B.A. (Use TP47 for GND.)
- Select SUB BRIGHT and move the shaded area to the value in EVR adjustment mode.
- 6. Turn the SCREEN CONTROL on the Flyback Transformer fully counterclockwise.
- 7. Press DISPLAY key on the remote control for collapse scan. (Refer to "HOW TO ENTER SERVICE MODE.")
- 8. Adjust SUB BRIGHT in EVR adjustment mode so that the level A is (170 VDC±5 VDC: For model with 20 inch CRT), or (185 VDC±5 VDC: For model with 27 inch CRT).

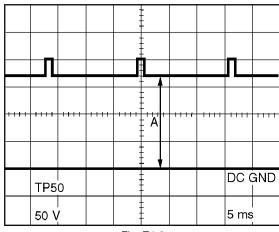


Fig. E4-2

- Turn the SCREEN CONTROL on the Flyback Transformer clockwise carefully and stop at the point where any color is first observed.
- 10. In EVR adjustment mode, select the two colors not observed in step 8 from the following control functions (R CUT-OFF, G CUT-OFF, B CUT-OFF) and adjust so that the horizontal line becomes white.

For example, if the horizontal line appeared red in step 8, select and adjust the B CUT-OFF and G CUT-OFF. (See NOTE)

- 11. Press DISPLAY key on the remote control again to return for full frame scan.
- 12. Select SUB BRIGHT in EVR adjustment mode and adjust so that the picture has adequate brightness.
- 13. Select G DRIVE and B DRIVE in EVR adjustment mode and adjust so that the entire screen is white.

Note:

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value.

7.2.8. SUB COLOR/SUB TINT ADJUSTMENT

Purpose: To set the standard color phase. Symptom of Color phase will be shifted.

Misadjustment:

Test Point : TP49 (CRT C.B.A.)
Adjustment : SUB COLOR (EVR),

SUB TINT (EVR),

Specification: Refer to descriptions below.

Input: Video Input Jack,

Rainbow Color Bar

Mode: STOP

Equipment: Oscilloscope,

NTSC Video Pattern Generator

- 1. Supply the Rainbow Color Bar signal to Video Input Jack.
- 2. Connect the Oscilloscope to TP49 on the CRT C.B.A.
- 3. Select SUB BRIGHT in EVR adjustment mode. Then, after making a note of original value, adjust to the (C0).
- 4. Select SUB TINT in EVR adjustment mode and adjust so that level A and B should be equal in amplitude.

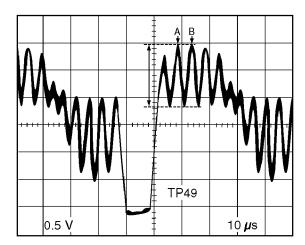


Fig. E5-1

5. Select SUB COLOR in EVR adjustment mode and adjust which higher level that level C is 1.50 V[p-p]±0.15 V[p-p].

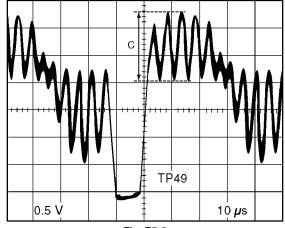


Fig. E5-2

6. Select SUB TINT in EVR adjustment mode and increase level B 1 clicks above the same level.

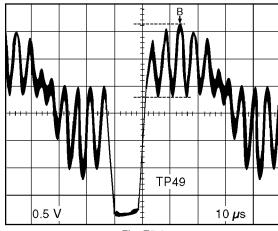


Fig. E5-3

7. Select SUB BRIGHT in EVR adjustment mode and reset to the original value.

7.2.9. DEFLECTION DISTORTION CORRECTION ADJUSTMENT

Purpose: To set the optimum picture.

Symptom of The picture is distortion.

Misadjustment:

Test Point : -----

Adjustment: V POSITION (EVR),

V SIZE (EVR), H-CENTER (EVR),

(For model with 27 inch CRT) R763 (Deflection C.B.A.),

R753 (Deflection C.B.A.), R766 (Deflection C.B.A.)

Specification: Refer to descriptions below.

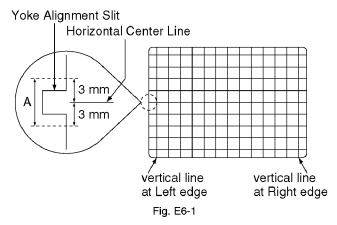
Input: Video Input Jack,

Crosshatch Pattern Signal, Monoscope Pattern Signal

Mode: STOP

Equipment: NTSC Video Pattern Generator

- 1. Supply a Crosshatch Pattern Signal to the Video Input Jack.
- 2. Confirm that the Horizontal Center Line is within the limits of A.



3. (For model with 27 inch CRT)

Adjust R763 so that vertical lines should be almost straight.

4. (For model with 27 inch CRT)

Adjust R753 so that vertical lines at Left edge and Right edge should be almost straight.

- 5. Supply a Monoscope Pattern Signal to the Video Input Jack.
- 6. Select V POSITION in EVR adjustment mode and adjust Horizontal Center Line is within the limits of A.

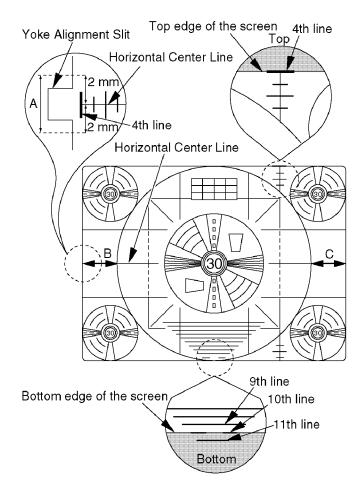


Fig. E6-2

- 7. Select V SIZE in EVR adjustment mode and adjust so that the top 4th line is just in view, and that the Bottom edge is between the 9th line and the 11th line.
- 8. Select H-CENTER in EVR adjustment menu and adjust so that B is approximately equal to width C.

9. (For model with 27 inch CRT)

Adjust R766 so that the left 4th line is just in view.

10. Supply a Crosshatch Pattern Signal to the Video Input Jack. Then, confirm that the picture is no distortion.

7.2.10. WHITE BALANCE ADJUSTMENT

Purpose: To set the standard white level for each

color temperature.

Symptom of

White becomes bluish or reddish.

Misadjustment:

Test Point : TP50 (CRT C.B.A)
Adjustment : FOCUS CONTROL

(Flyback Transformer),

SCREEN CONTROL (Flyback

Transformer),

SUB BRIGHT (EVR),
G DRIVE (EVR),
B DRIVE (EVR),
R CUT-OFF (EVR),

G CUT-OFF (EVR), B CUT-OFF (EVR)

Specification: Refer to descriptions below.

Input: Video Input Jack,

Monoscope Pattern Signal,

White Pattern Signal

Mode: STOP

Equipment: NTSC Video Pattern Generator,

White Pattern Generator,

Oscilloscope

- 1. Supply a Monoscope Pattern Signal to the Video Input
- 2. Connect the Oscilloscope to TP50 on the CRT C.B.A. (Use TP47 for GND.)
- 3. Select SUB BRIGHT and move the shaded area to the value in EVR adjustment mode.
- Adjust the FOCUS CONTROL on the Flyback Transformer so that the "a" and "b" are the sharpest.

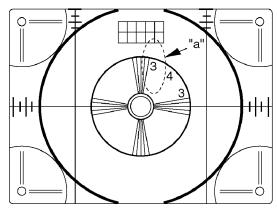


Fig. E7-1

- Turn the SCREEN CONTROL on Flyback Transformer fully counterclockwise.
- Press DISPLAY key on the remote control for collapse scan. (Refer to "HOW TO ENTER SERVICE MODE.")
- 7. Adjust SUB BRIGHT in EVR adjustment mode so that the level A is 175 VDC±5 VDC.

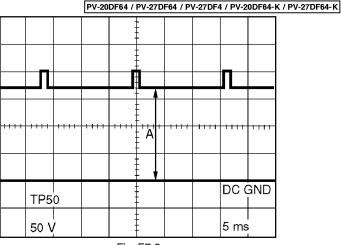


Fig. E7-2

- Turn the SCREEN CONTROL on the Flyback Transformer clockwise carefully and stop at the point where red or blue is first observed.
- 9. In EVR adjustment mode, select the two colors not observed in step 8 from the following control functions (R CUT-OFF, G CUT-OFF, B CUT-OFF) and adjust so that the horizontal line becomes white.

For example, if the horizontal line appeared red in step 8, select and adjust the B CUT-OFF and G CUT-OFF. (See NOTE)

- 10. Supply a White Pattern Signal to the Video Input Jack.
- 11. Press DISPLAY key on the remote control again to return for full frame scan.
- 12. Select G DRIVE and B DRIVE in EVR adjustment mode and adjust so that the entire screen is white.
- 13. Confirm that the screen is tracking the White Pattern properly. If NG, repeat the above steps 8, 9 and 12 until the screen is properly tracking the White Pattern.
- 14. Select SUB BRIGHT in EVR adjustment mode and adjust correctly.

Note:

Before pressing DISPLAY key on the remote control for collapse scan, select the desired control function and move the shaded area to the value.

7.2.11. SUB BRIGHTNESS ADJUSTMENT

Note:

Perform this adjustment in a darkened room.

Purpose: To set the optimum brightness level.

Symptom of The picture is too white or too black.

Misadjustment:

Test Point: -----

Adjustment: SUB BRIGHT (EVR),

Specification: Refer to descriptions below.

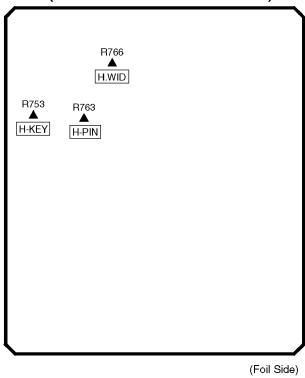
Input: -----Mode: STOP

1. Do not input any signal to the unit.

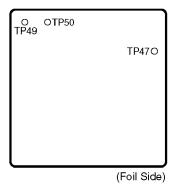
- 2. Set INPUT SELECT item to LINE in SET UP TV menu to display black screen.
- 3. Select SUB BRIGHT in EVR adjustment mode, and adjust so that the black screen starts to turn gray (lighting only).

7.3. TEST POINTS AND CONTROL LOCATION

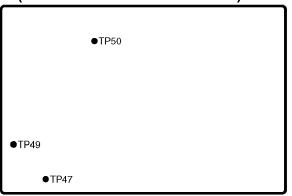
Deflection C.B.A. (For model with 27 inch CRT)



CRT C.B.A.



CRT C.B.A. (For model with 27 inch CRT)



(Foil Side)

Test Point Information

- Test Point with a Test Pin.
- ① Test Point with a jumper wire across a hole in the P.C.B.
- O Test Point with no Test Pin.

PV-20DF64 / PV-27DF64 / PV-27DF4 / PV-20DF64-K / PV-27DF64-K

8 SCHEMATIC DIAGRAMS

3.1. SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES

1. Important safety notice

Components identified by the sign have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

2. Do not use the part number shown on this drawing for ordering.

The correct part number and part value is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

- 4. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
- 5. Test point information
 - ① :Test point with a jumper wire across a hole in P.C.B.
- ② :Test point with no test pin.
- :Test point with a test pin.

Schematic Diagram Notes

Indication for Zener Voltage of Zener Diodes
 The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

Example:

(6.2V).....Zener Voltage

2. How to identify Connectors

Each connector is labeled with a Connector No. and Pin No. Indicating what it is connected to,

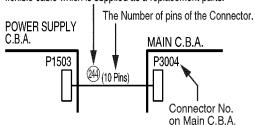
in other words, its counter part.

Use the interconnection schematic diagram to find the connection between associated connectors.

Example:

The connections between C.B.A.s are shown below.

Ref. No. of the connection parts such as lead cable, flexible cable which is supplied as a replacement parts.



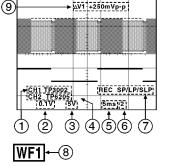
3. Parts marked "PT" are not used in any models included in this service model.

Example:

4. Jumper wires are used for WA10, WA5 etc and these are not supplied as replacement parts.

Signal Waveform Note

How to read Signal Waveform



- 1 Connecting Point
- ② Volts/Div
- 3 Volts/Div
- 4 Connecting Point
- 5 Time/Div
- 6 Trigger Channel of the scope
- (1:CH1,2:CH2)
- Operation Mode of VCR
- 8 Waveform Point on Schematic
- 9 V1:Peak to Peak

Voltage Chart Note

Voltage Measurement

- a. Color bar signal in SP mode.
- b. ---: Unmeasurable or not necessary to measure.

Circuit Board Layout Note

Circuit Board Layout shows components installed for various models.

For proper parts content for the model you are servicing, please refer to the schematic diagram and parts list.

NOTE:

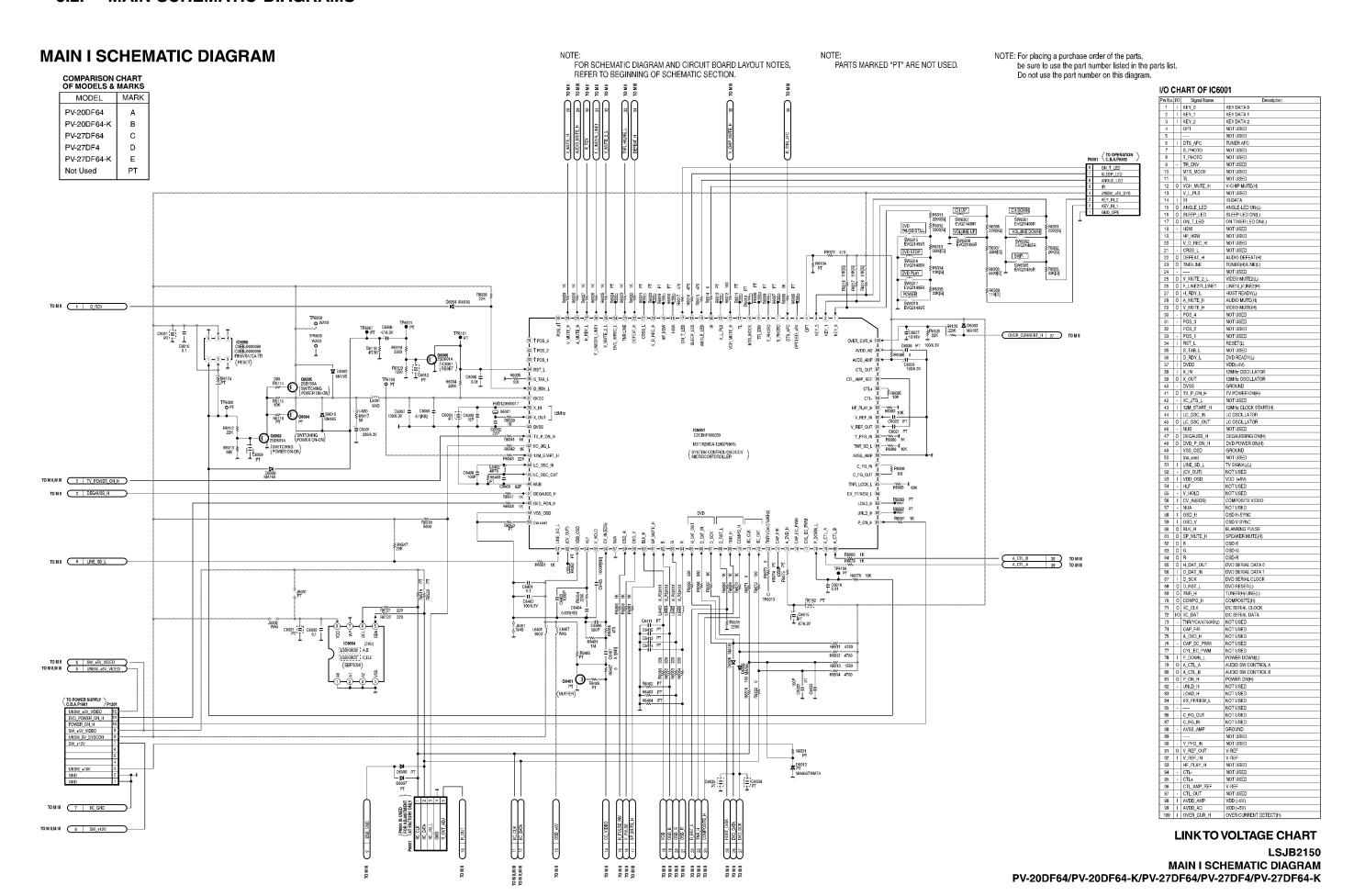
Circuit Board Layout includes components which are not used.

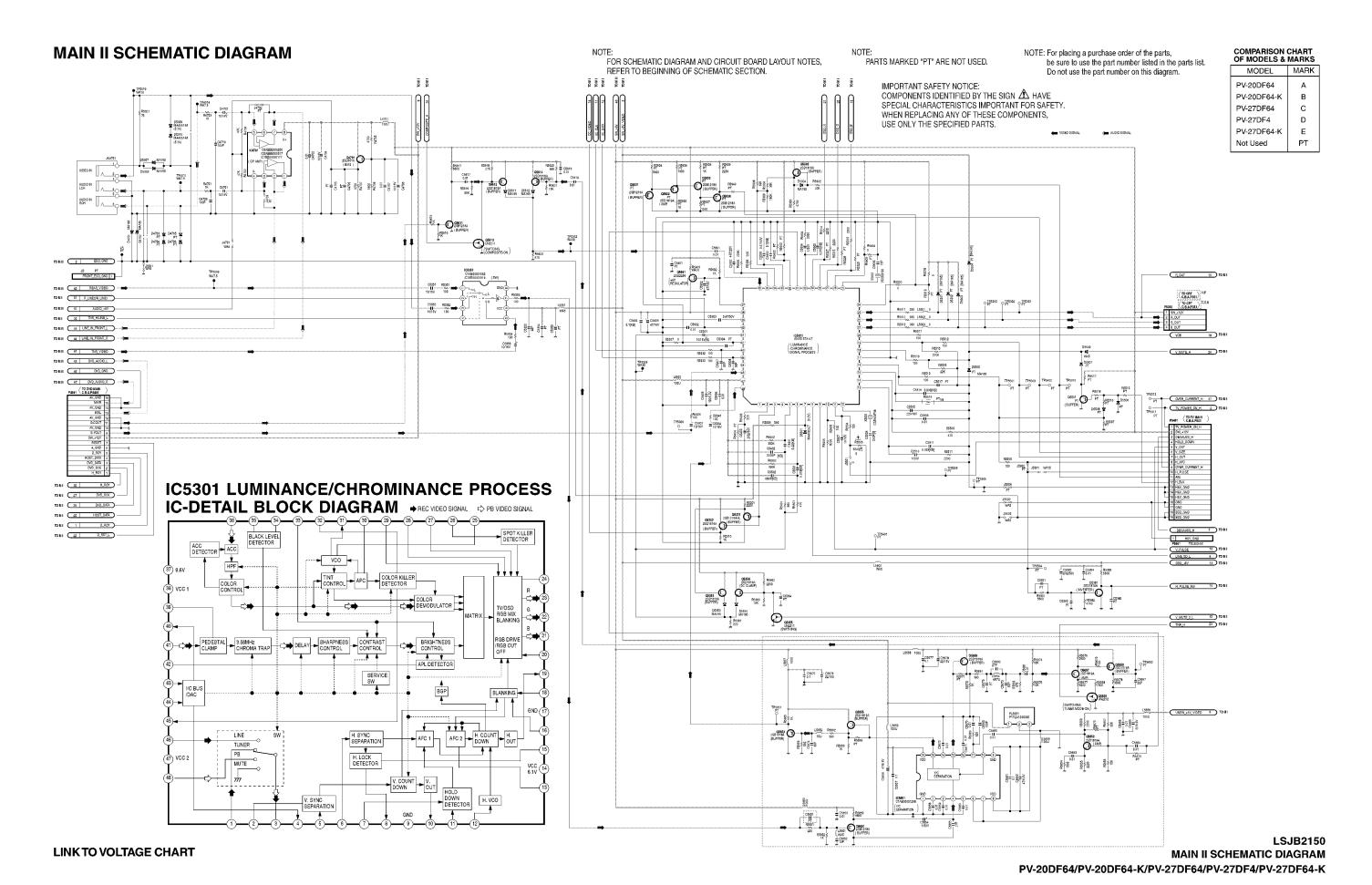
Model No. Identification Mark

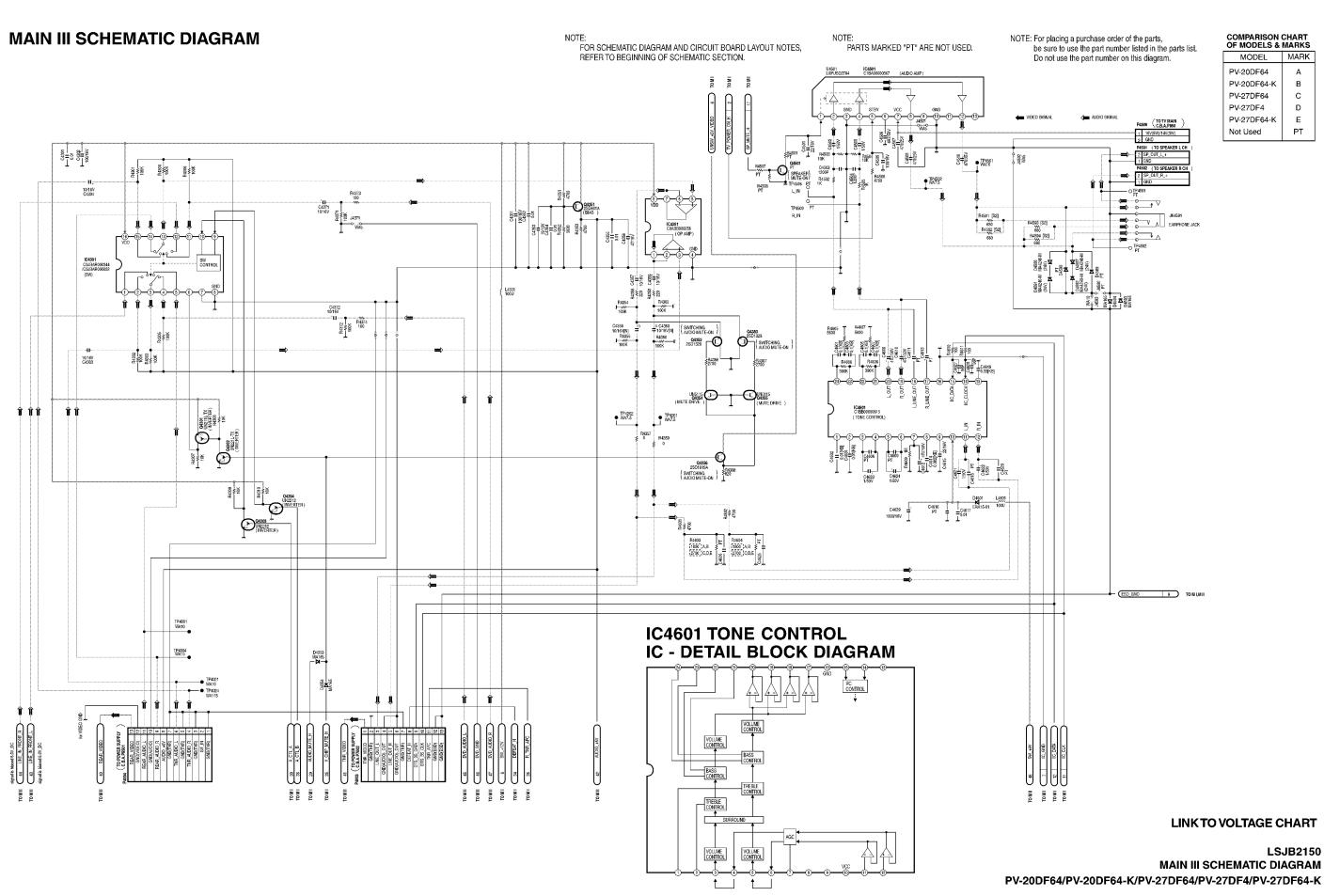
Note: Refer to item 3 of Schematic Diagram Notes for mark "PT".

SCHEMATIC DIAGRAM & CIRCUIT BOAD LAYOUT NOTES PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF64-K

8.2. MAIN SCHEMATIC DIAGRAMS







8.3. TV MAIN SCHEMATIC DIAGRAMS

TV MAIN I SCHEMATIC DIAGRAM

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:
PARTS MARKED "PT" ARE NOT USED.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

 OF MODELS & MARKS

 MODEL
 MARK

 PV-20DF64
 A

 PV-20DF64-K
 B

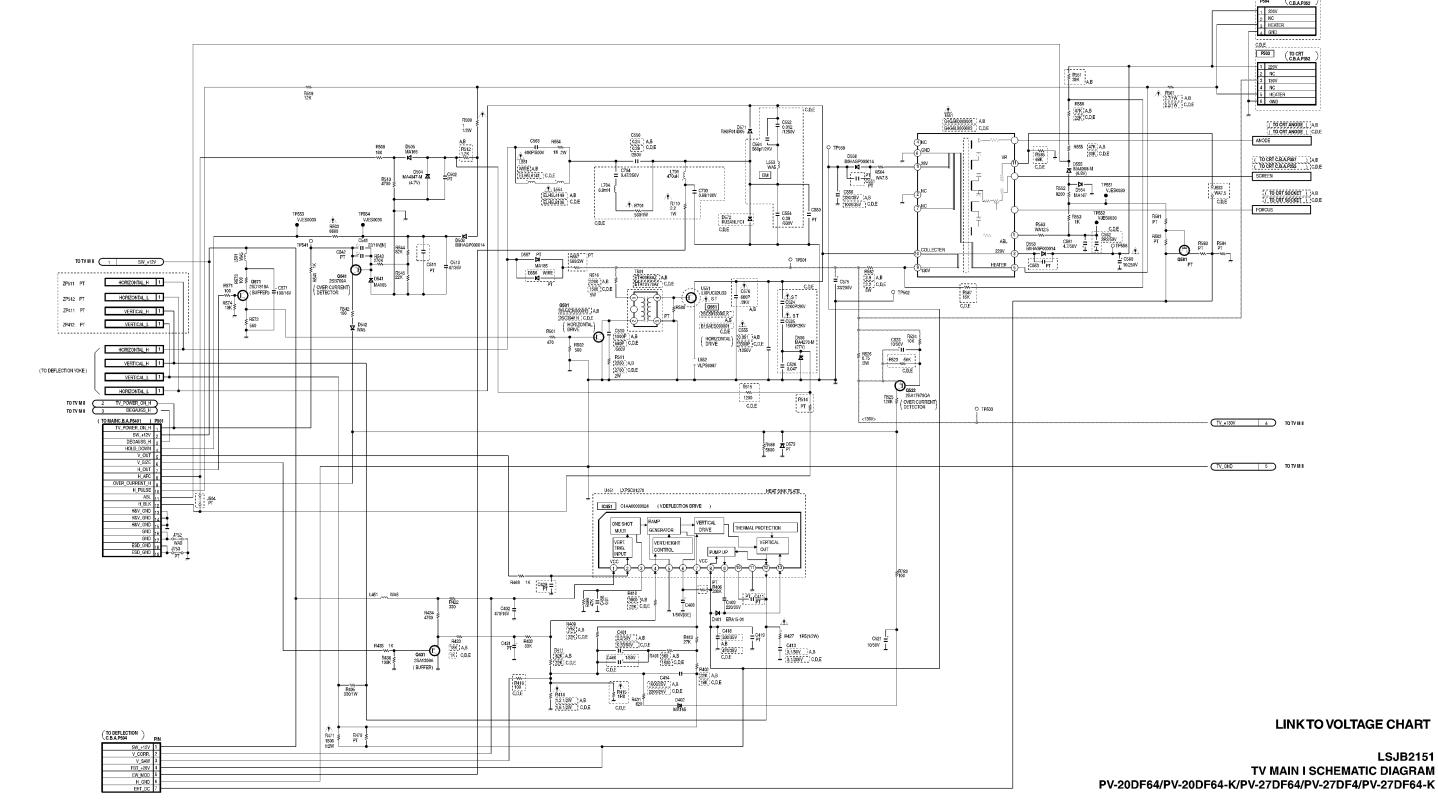
 PV-27DF64
 C

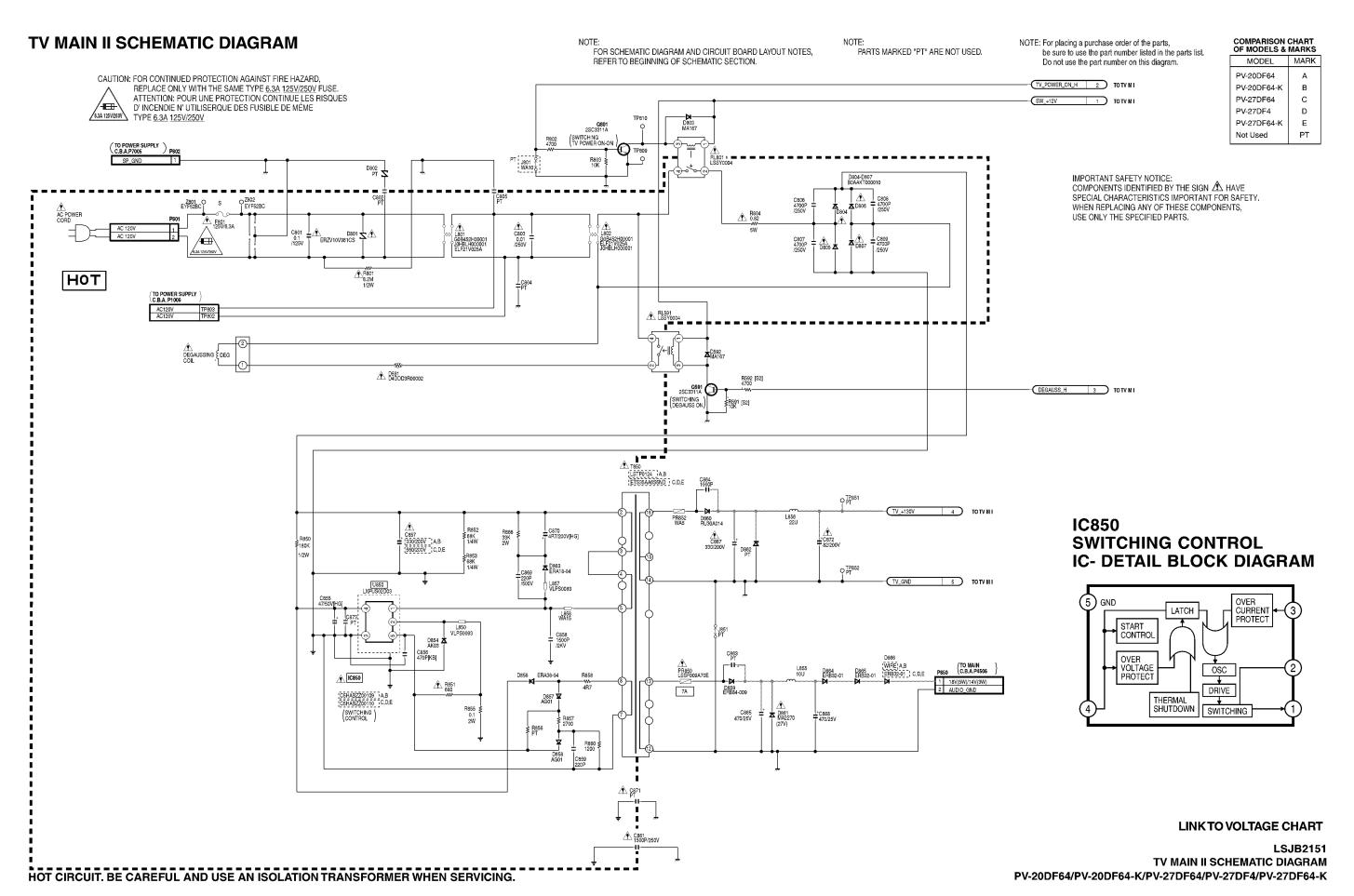
 PV-27DF4
 D

 PV-27DF64-K
 E

 Not Used
 PT

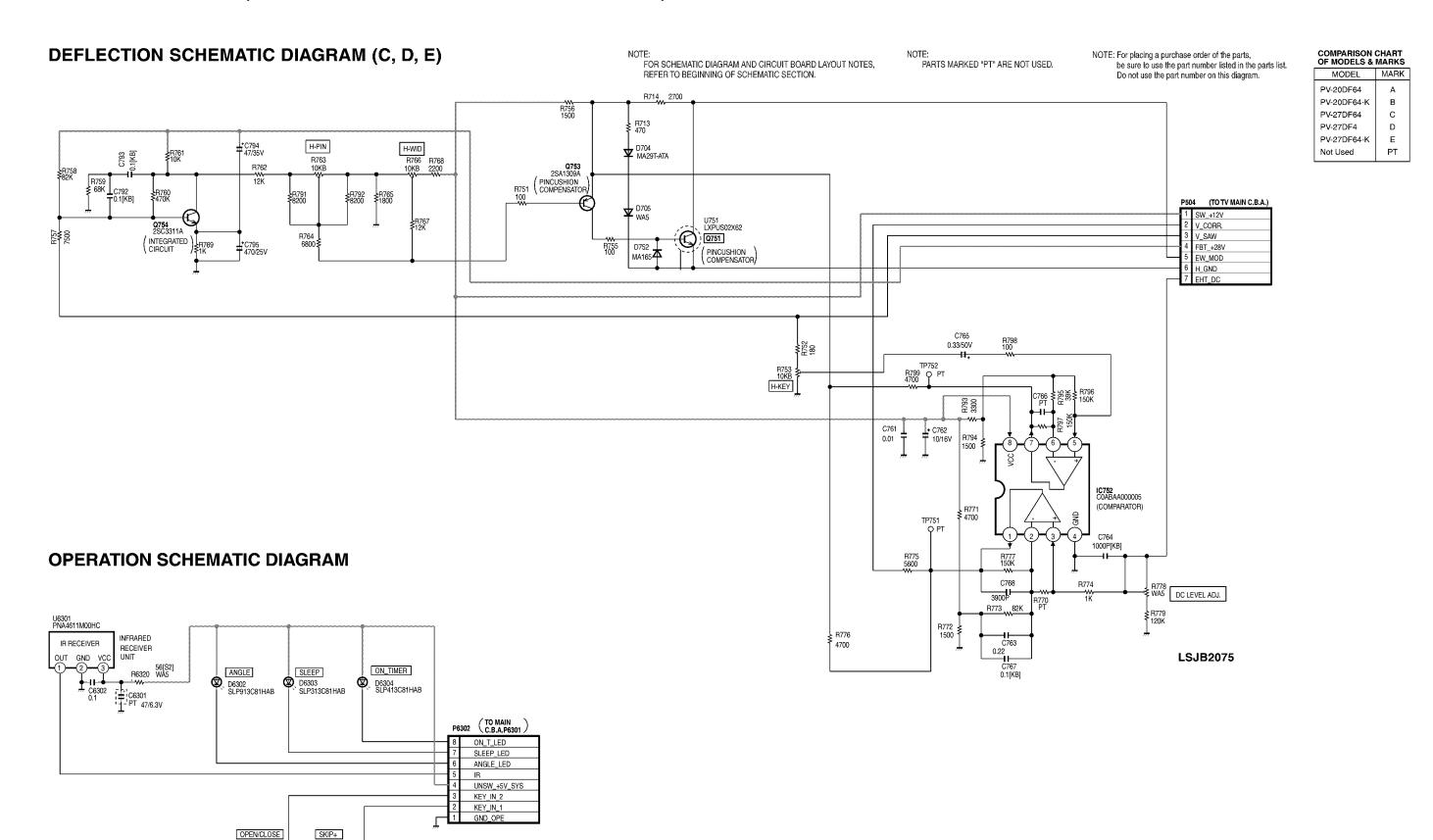
COMPARISON CHART





8.4. DEFLECTION (Models: PV-27DF64 / PV-27DF4 / PV-27DF64-K) / OPERATION SCHEMATIC DIAGRAMS

LSJB2146



LINKTO VOLTAGE CHART

DEFLECTION SCHEMATIC DIAGRAM
OPERATION SCHEMATIC DIAGRAM
PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF64-K

8.5. POWER SUPPLY SCHEMATIC DIAGRAMS

POWER SUPPLY I SCHEMATIC DIAGRAM NOTE: For placing a purchase order of the parts, FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION. PARTS MARKED "PT" ARE NOT USED. be sure to use the part number listed in the parts list. Do not use the part number on this diagram. R9002 100 C9026 **P7001** TEL302-5X ESD GND 1 U7001 [J3AAABB00001] A,B,C,D,E,F [ENG37A11GF] G,H,I (UHF/VHFTUNER) TO P II 1 SW_+5V_VIDEO R9005 47K C9020 PT C9019 10.01[KB] R9008 47K C9023 PT C9024 IC9001 AN5832SA-E1 (FM SIGNAL PROCESS) TO P II 2 SW_+30V P7002 (TO MAIN C.B.A.P4003 13 GND(ESD) DEFEAT_H GND(TNR) GND(AUDIO)_OUT LINE_OUT_R GND(AUDIO)_OUT LINE_OUT_L LINE_OUT_L LONG(TNR) TO P II 3 SW_+5V_AUDIO P9501 (TO MAIN C.B.A.P4004 GND(TNR) SIF_IN GND(TNR) TNR_AUDIO_R SW_+12V тори 4 GND(TNR) AUDIO_+6V REAR_AUDIO_R GND(AUDIO) REAR_AUDIO_L GND(AUDIO) 2SD1819A (BIAS) R9501 75 LINKTO VOLTAGE CHART

LSJB2155

POWER SUPPLY I SCHEMATIC DIAGRAM

PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF4/PV-27DF64-K

TP9501 WA7.5

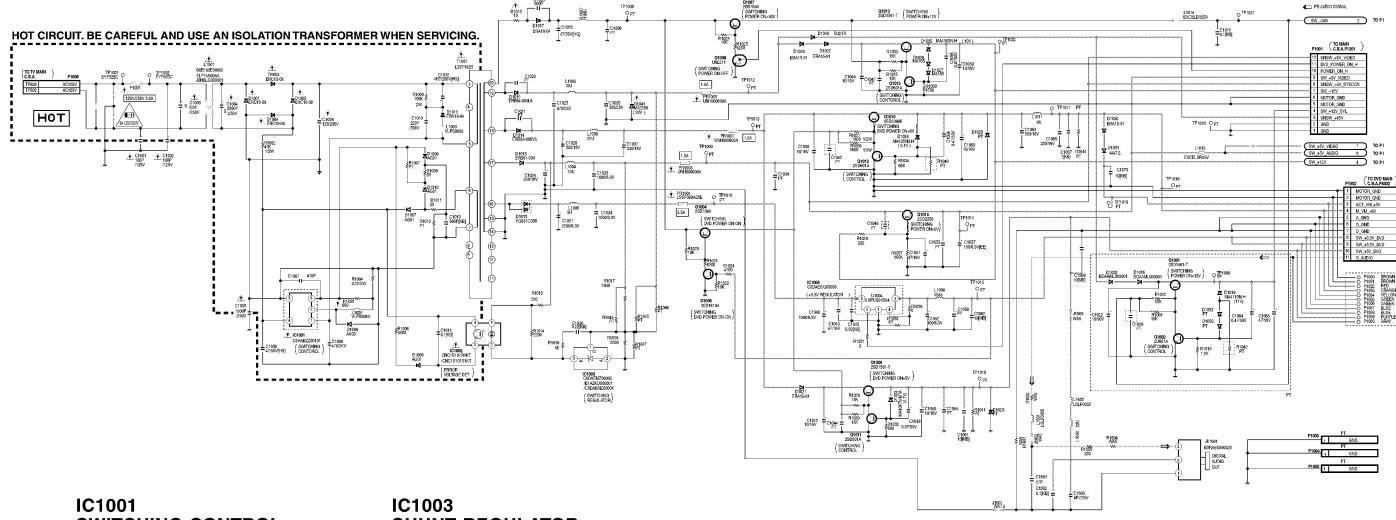
POWER SUPPLY II SCHEMATIC DIAGRAM

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION. OTE:
PARTS MARKED "PT" ARE NOT USED.

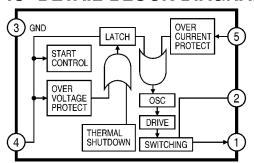
NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 3A 125V/250V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 3A 125V/250V

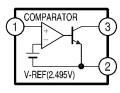
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



IC1001 SWITCHING CONTROL IC- DETAIL BLOCK DIAGRAM



IC1003 SHUNT REGULATOR IC- DETAIL BLOCK DIAGRAM



LINK TO VOLTAGE CHART

LSJB2155
POWER SUPPLY II SCHEMATIC DIAGRAM
PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF64-K

8.6. CRT SCHEMATIC DIAGRAM (Models: PV-20DF64 / PV-20DF64-K)

CRT SCHEMATIC DIAGRAM (A, B)

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

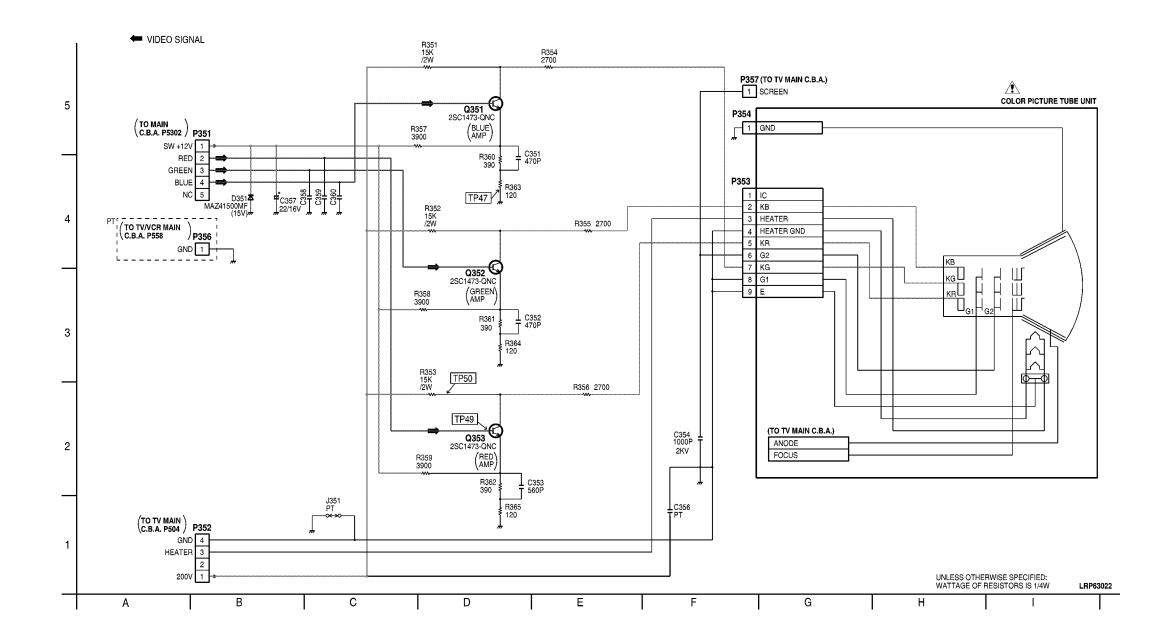
IOTE:
PARTS MARKED "PT" ARE NOT USED.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK						
PV-20DF64	Α						
PV-20DF64-K	В						
PV-27DF64	С						
PV-27DF4	D						
PV-27DF64-K	E						
Not Used	PT						



LINK TO VOLTAGE CHART

LRP63022 CRT SCHEMATIC DIAGRAM PV-20DF64/PV-20DF64-K

8.7. CRT SCHEMATIC DIAGRAM (Models: PV-27DF64 / PV-27DF4 / PV-27DF64-K)

CRT SCHEMATIC DIAGRAM (C, D, E)

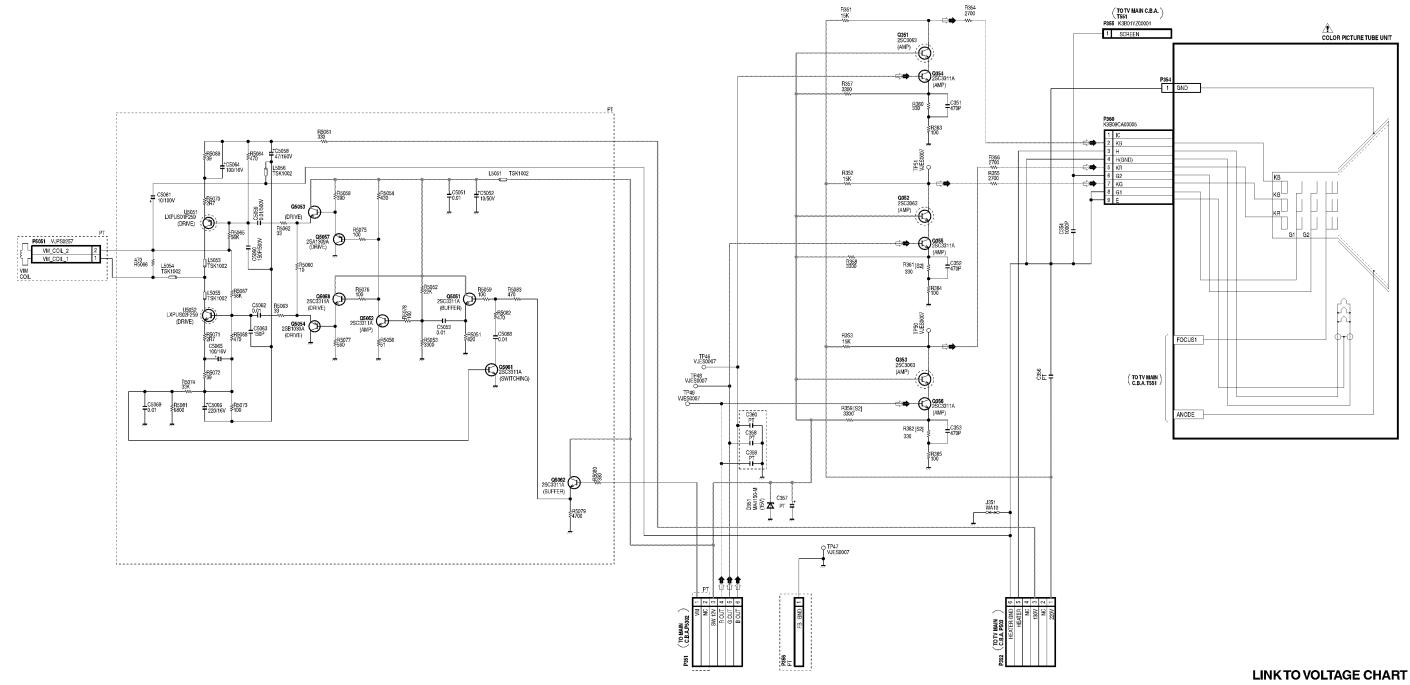
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: PARTS MARKED "PT" ARE NOT USED.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

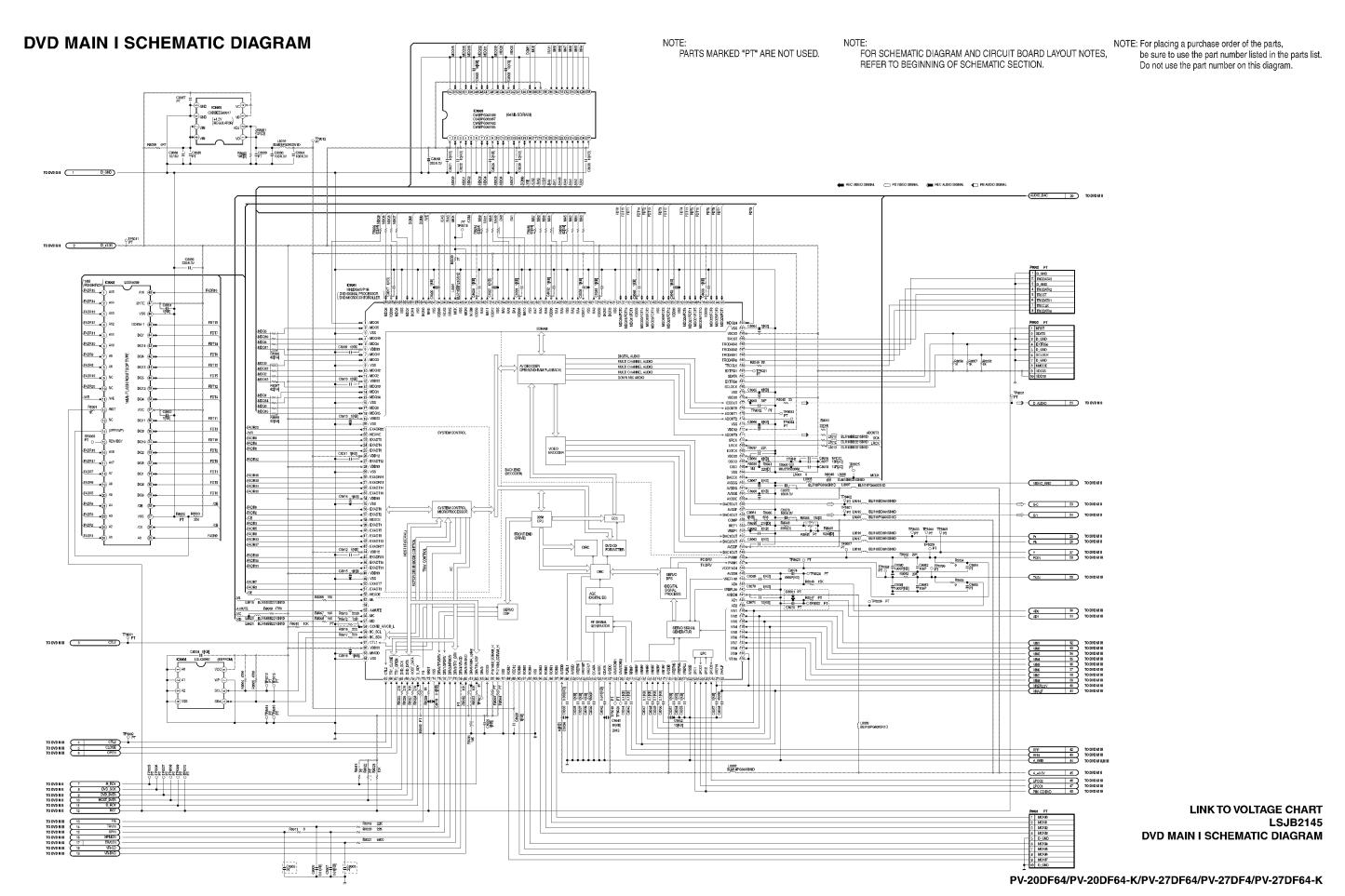
COMPARISON CHART OF MODELS & MARKS MODEL MARK PV-20DF64 PV-20DF64-K PV-27DF64 PV-27DF4 PV-27DF64-K Е PT Not Used

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN 🛕 HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.



CRT SCHEMATIC DIAGRAM PV-27DF64/PV-27DF4/PV-27DF64-K

8.8. DVD MAIN / DVD SUB SCHEMATIC DIAGRAMS



I/O CHART OF IC8002

1	Pin No.	1/0	Signal Name	Description
3	1	ı	A15	Memory address 16
1	2	I	A14	Memory address 15
5 I A11 Memory address 12 6 I A10 Memory address 10 7 I A9 Memory address 9 9 I NC Memory address 20 10 I NC Memory address 21 11 I //VE Write enable : low 12 I //RST Reset : low 13 - NC (Not used) 14 - VPP/WP (Not used) 14 - VPP/WP (Not used) 15 I RDY/BSY DVD Ready (Busy : low) 16 I A18 Memory address 19 17 I A17 Memory address 19 18 I A7 Memory address 18 18 I A7 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 5 21 I A4 Memory address 2 <	3	ı	A13	Memory address 14
6 I A10 Memory address 11 7 I A9 Memory address 10 8 I A8 Memory address 20 9 I NC Memory address 21 10 I NC Memory address 21 11 I WE Write enable : low 12 I /RST Reset : low 13 - NC (Not used) 14 - VPP/WP (Not used) 14 - VPP/WP (Not used) 15 I RDY/BSY DVD Ready (Busy : low) 16 I A18 Memory address 19 17 I A17 Memory address 19 18 I A7 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 5 21 I A4 Memory address 2 22 I A3 Memory address 2 2	4	ı	A12	Memory address 13
7 I A9 Memory address 10 8 I A8 Memory address 20 9 I NC Memory address 21 10 I NC Memory address 21 11 I //NE Write enable: low 12 I //RST Reset: low 13 - NC (Not used) 14 - VPPWP (Not used) 15 I A18 Memory address 19 16 I A18 Memory address 18 17 I A17 Memory address 8 19 I A6 Memory address 8 19 I A6 Memory address 5 20 I <td>5</td> <td>ı</td> <td>A11</td> <td>Memory address 12</td>	5	ı	A11	Memory address 12
8 I A8 Memory address 9 9 I NC Memory address 20 10 I NC Memory address 21 11 I WE Write enable : low 12 I /RST Reset : low 13 - NC (Not used) 14 - VPP/WP (Not used) 14 - VPP/WP (Not used) 15 I RDY/BSY DVD Ready (Busy : low) 16 I A18 Memory address 19 17 I A17 Memory address 18 18 I A7 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 6 21 I A4 Memory address 5 22 I A3 Memory address 3 24 I A1 Memory address 2 25 I A0 Memory address 1 26<	6	ı	A10	Memory address 11
9 I NC Memory address 20 10 I NC Memory address 21 11 I WE Write enable : low 12 I /RST Reset : low (Not used) 14 - VPP/WP (Not used) 15 I RDY/BSY DVD Ready (Busy : low) 16 I A18 Memory address 19 17 I A17 Memory address 8 19 I A6 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 6 21 I A4 Memory address 5 22 I A3 Memory address 5 23 I A2 Memory address 3 24 I A1 Memory address 3 24 I A1 Memory address 3 25 I A0 Memory address 1 26 I /CE Memory address 1 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 1 32 I/O DQ1 Memory data 1 32 I/O DQ1 Memory data 1 33 I/O DQ2 Memory data 1 34 I/O DQ1 Memory data 1 35 I/O DQ3 Memory data 1 36 I/O DQ1 Memory data 1 37 I VCC +3.3V 38 I/O DQ4 Memory data 1 39 I/O DQ1 Memory data 1 30 I/O DQ1 Memory data 1 31 I/O DQ1 Memory data 1 32 I/O DQ3 Memory data 2 34 I/O DQ1 Memory data 1 35 I/O DQ3 Memory data 1 36 I/O DQ1 Memory data 1 37 I VCC +3.3V 38 I/O DQ4 Memory data 1 39 I/O DQ1 Memory data 1 40 I/O DQ1 Memory data 5 41 I/O DQ1 Memory data 5 41 I/O DQ1 Memory data 1 42 I/O DQ6 Memory data 7 45 I/O DQ15A-1 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground	7	ı	A9	Memory address 10
10	8	I	A8	Memory address 9
11 I WE Write enable : low 12 I /RST Reset : low 13 - NC (Not used) 14 - VPP/WP (Not used) 14 - VPP/WP (Not used) 15 I RDY/BSY DVD Ready (Busy : low) 16 I A18 Memory address 19 17 I A17 Memory address 18 18 I A7 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 6 21 I A4 Memory address 5 22 I A3 Memory address 3 24 I A1 Memory address 2 25 I A0 Memory address 3 26 I /CE Memory ddress 1 26 I /CE Memory ddress 2 27 - VSS Ground 28	9	ı	NC	Memory address 20
12	10	ı	l	Memory address 21
13	11	ı	WE	Write enable : low
14 - VPP/WP (Not used) 15 I RDY/BSY DVD Ready (Busy : low) 16 I A18 Memory address 19 17 I A17 Memory address 18 18 I A7 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 6 21 I A4 Memory address 5 22 I A3 Memory address 3 24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory chip select : low 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ0 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ1 Memory data 1 32 I/O DQ2 Memory data 1 33 I/O DQ1 Memory data 10 35 I/O DQ1 Memory data 10 35	12	I	/RST	Reset: low
15	13	-	NC	(Not used)
16 I A18 Memory address 19 17 I A17 Memory address 18 18 I A7 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 6 21 I A4 Memory address 5 22 I A3 Memory address 3 24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory address 1 26 I /CE Memory address 1 27 - VSS Ground 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ9 Memory data 9 33 I/O DQ9 Memory data 2 34	14	-	VPP/WP	(Not used)
17 I A17 Memory address 18 18 I A7 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 6 21 I A4 Memory address 5 22 I A3 Memory address 3 23 I A2 Memory address 2 24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory address 1 26 I /CE Memory address 1 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 2 34 I/O DQ10 Memory data 10 35 <td>15</td> <td>I</td> <td>RDY/BSY</td> <td>DVD Ready (Busy : low)</td>	15	I	RDY/BSY	DVD Ready (Busy : low)
18 I A7 Memory address 8 19 I A6 Memory address 7 20 I A5 Memory address 6 21 I A4 Memory address 5 22 I A3 Memory address 4 23 I A2 Memory address 3 24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory address 1 26 I /CE Memory address 1 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 8 31 I/O DQ1 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35	16	I	A18	Memory address 19
19 I A6 Memory address 7 20 I A5 Memory address 6 21 I A4 Memory address 5 22 I A3 Memory address 3 23 I A2 Memory address 2 24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory chip select : low 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ0 Memory data 8 31 I/O DQ1 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 2 34 I/O DQ10 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38	17	ı	A17	Memory address 18
20	18	I	A7	Memory address 8
21 I A4 Memory address 5 22 I A3 Memory address 4 23 I A2 Memory address 3 24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory address 1 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 9 33 I/O DQ2 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 <	19	I	A6	Memory address 7
22 I A3 Memory address 4 23 I A2 Memory address 3 24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory address 1 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 9 33 I/O DQ2 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 3 36 I/O DQ4 Memory data 4 39 I/O DQ4 Memory data 4 39 I/O DQ4 Memory data 5 41	20	ı	A5	Memory address 6
23 I A2 Memory address 3 24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory chip select : low 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 13 42 <td>21</td> <td>I</td> <td>A4</td> <td>Memory address 5</td>	21	I	A4	Memory address 5
24 I A1 Memory address 2 25 I A0 Memory address 1 26 I /CE Memory chip select : low 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 5 41 I/O DQ5 Memory data 13 42 I/O DQ6 Memory data 14 44 <td>22</td> <td>ı</td> <td>A3</td> <td>Memory address 4</td>	22	ı	A3	Memory address 4
25 I AO Memory address 1 26 I /CE Memory chip select : low 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 5 41 I/O DQ5 Memory data 5 41 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 7 45	23	I	A2	Memory address 3
26 I /CE Memory chip select : low 27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ6 Memory data 6 43 I/O DQ6 Memory data 14 44 I/O DQ7 Memory data 15 45 <td>24</td> <td>ı</td> <td>A1</td> <td>Memory address 2</td>	24	ı	A1	Memory address 2
27 - VSS Ground 28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 6 43 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46	25	ı	A0	Memory address 1
28 I /OE Output enable : low 29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 6 43 I/O DQ6 Memory data 6 43 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47	26	ı	/CE	Memory chip select : low
29 I/O DQ0 Memory data 0 30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I I/BYTE +3.3V	27	-	VSS	Ground
30 I/O DQ8 Memory data 8 31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	28	ı	/OE	Output enable : low
31 I/O DQ1 Memory data 1 32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	29	1/0	DQ0	Memory data 0
32 I/O DQ9 Memory data 9 33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	30	1/0	DQ8	Memory data 8
33 I/O DQ2 Memory data 2 34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	31	1/0	DQ1	Memory data 1
34 I/O DQ10 Memory data 10 35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 7 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	32	1/0	DQ9	Memory data 9
35 I/O DQ3 Memory data 3 36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	33	1/0	DQ2	Memory data 2
36 I/O DQ11 Memory data 11 37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	34	1/0	DQ10	Memory data 10
37 I VCC +3.3V 38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	35	1/0	DQ3	Memory data 3
38 I/O DQ4 Memory data 4 39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	36	1/0	DQ11	Memory data 11
39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	37	I	VCC	
39 I/O DQ12 Memory data 12 40 I/O DQ5 Memory data 5 41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	38	1/0	DQ4	Memory data 4
41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	39	1/0	DQ12	
41 I/O DQ13 Memory data 13 42 I/O DQ6 Memory data 6 43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	40	1/0	DQ5	Memory data 5
43 I/O DQ14 Memory data 14 44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	41	1/0	DQ13	Memory data 13
44 I/O DQ7 Memory data 7 45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	42	1/0	DQ6	Memory data 6
45 I/O DQ15A-1 Memory data 15 46 - VSS Ground 47 I /BYTE +3.3V	43	1/0	L	Memory data 14
46 - VSS Ground 47 I /BYTE +3.3V	44	1/0	DQ7	Memory data 7
47 I /BYTE +3.3V	45	1/0	DQ15A-1	Memory data 15
	46	-	VSS	Ground
48 I A16 Memory address 16	47		/BYTE	+3.3V
	48	Ī	A16	Memory address 16

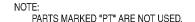
I/O CHART OF IC8003

Pin No.	1/0	Signal Name	Description
1	1	VDD	+3.3V
2	1/0	DQ0	SDRAM data 0
3	1	VDDQ	+3.3V
4	1/0	DQ1	SDRAM data 1
5	1/0	DQ2	SDRAM data 2
6	-	VSSQ	Ground
7	1/0	DQ3	SDRAM data 3
8	1/0	DQ4	SDRAM data 4
9	1	VDDQ	+3.3V
10	1/0	DQ5	SDRAM data 5
11	1/0	DQ6	SDRAM data 6
12	-	VSSQ	Ground
13	1/0	DQ7	SDRAM data 7
14	1	VDD	+3.3V
15	1	LDQM	Data input/output mask
16	ı	WE	Write enable : low
17	ı	/CAS	Column address strobe : low
18	1	/RAS	Row address strobe :low
19	1	/CS	SDRAM chip select : low
20	1	BA0	Bank address 0
21	1	BA1	Bank address 1
22	1	A10/AP	SDRAM address 10
23	1	A0	SDRAM address 0
24	1	A1	SDRAM address 1
25	1	A2	SDRAM address 2
26	T	A3	SDRAM address 3
27	1	VDD	+3.3V
28	-	VSS	Ground
29	ı	A4	SDRAM address 4
30	i	A5	SDRAM address 5
31	i	A6	SDRAM address 6
32	i	A7	SDRAM address 7
33	i	A8	SDRAM address 8
34	Ħ	A9	SDRAM address 9
35	i	A11	SDRAM address 11
36	-	NC	(Not used)
37	_	CKE	(Not used)
38	1	CLK	SDRAM clock
39	1	UDQM	Data input/output mask
40	-	NC/RFU	(Not used)
40	-	VSS	Ground
		 	SDRAM data 8
42	1/0	DQ8	
43	1/0	VDDQ	+3.3V
44	1/0	DQ9	SDRAM data 9
45	1/0	DQ10	SDRAM data 10
46	- 1/0	VSSQ	Ground CDDAM date 11
47	1/0	DQ11	SDRAM data 11
48	1/0	DQ12	SDRAM data 12
49	110	VDDQ	+3.3V
50	1/0	DQ13	SDRAM data 13
51	1/0	DQ14	SDRAM data 14
52	•	VSSQ	Ground
53	1/0	DQ15	SDRAM data 15
54	-	VSS	Ground

I/O CHART OF IC8004

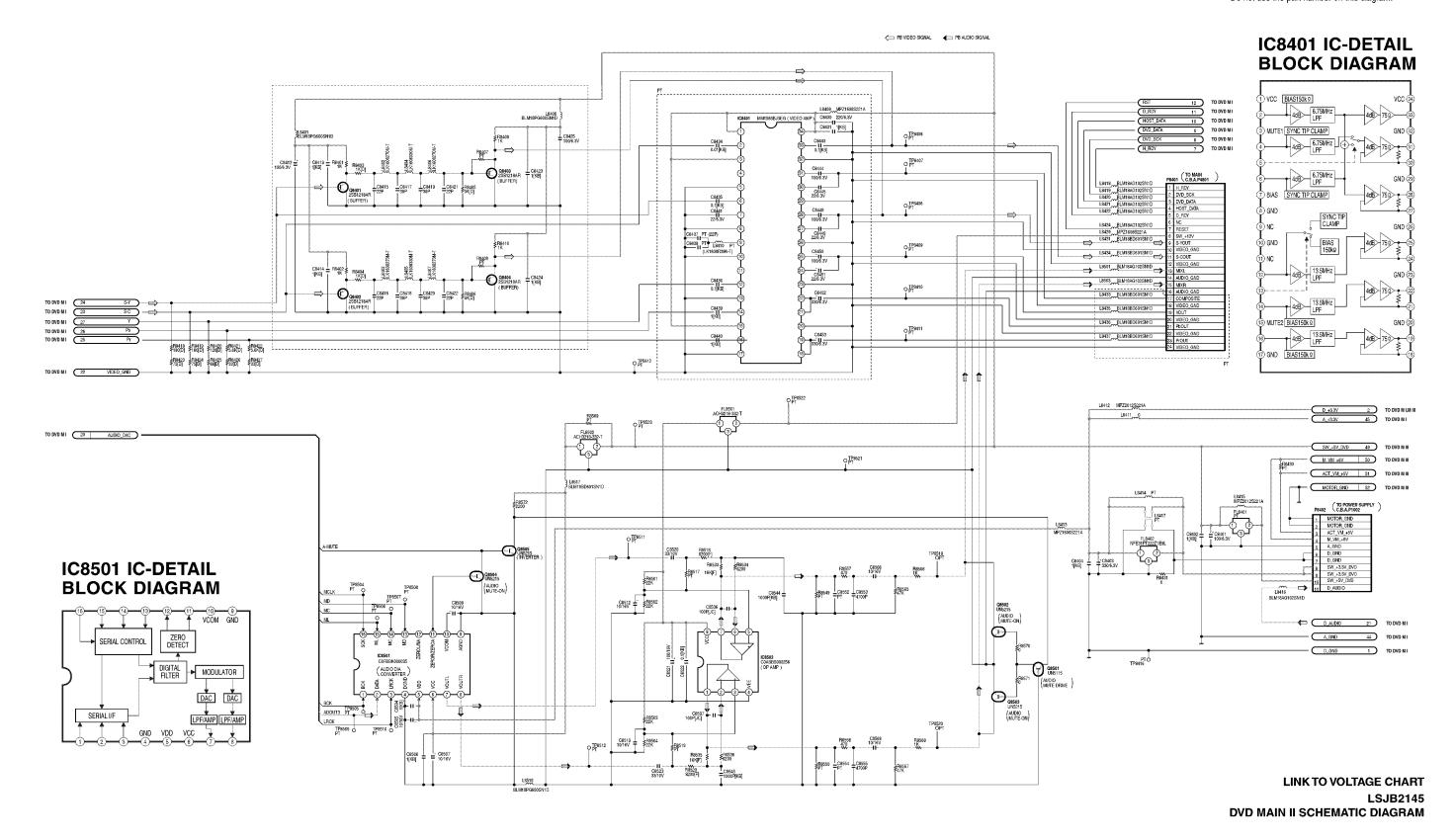
Pin No.	I/O	Signal Name	Description
1	-	A0	(Not used)
2	-	A1	(Not used)
3	-	A2	(Not used)
4	-	VSS	Ground
5	I/O	SDA	Serial data
6	I	SCL	Serial clock
7	-	WP	Write protect
8	I	VCC	+3.3V

DVD MAIN II SCHEMATIC DIAGRAM



NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

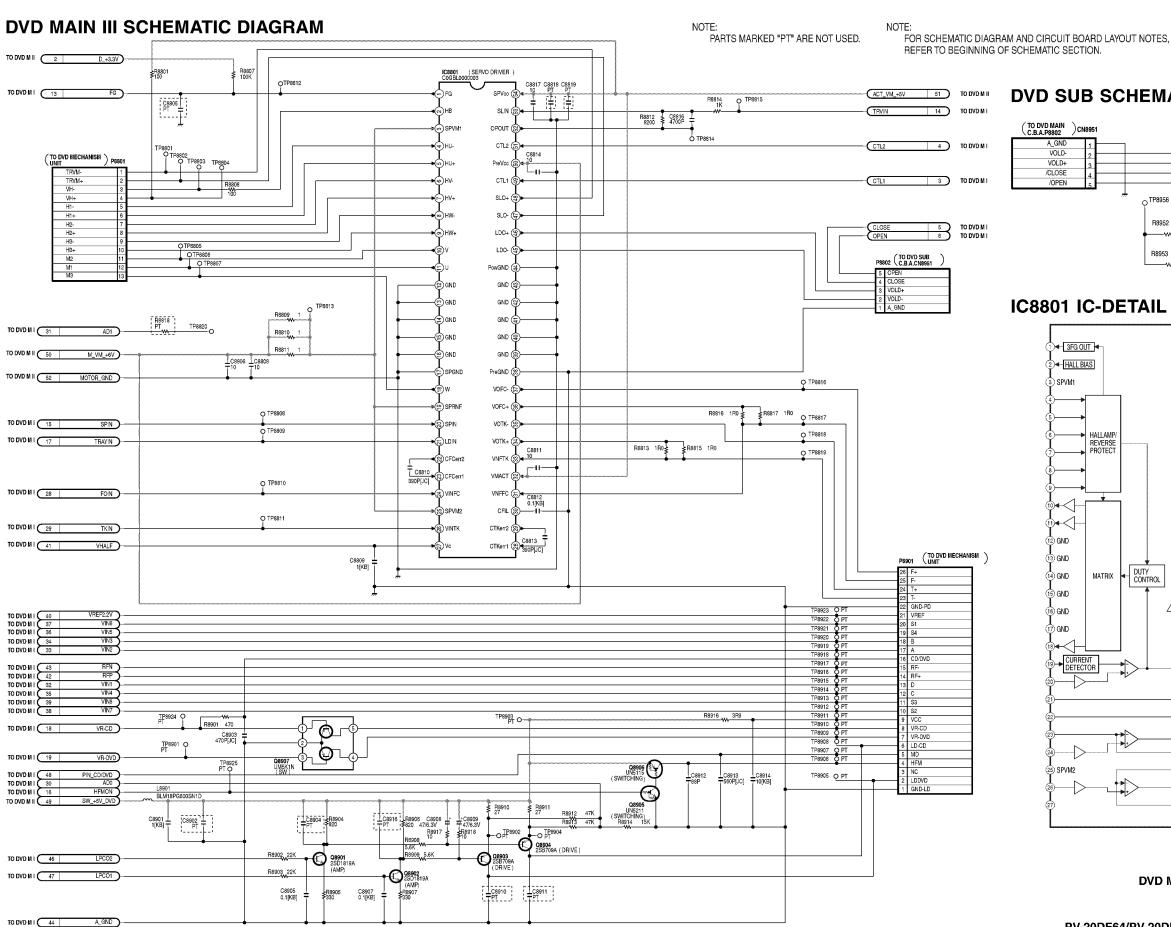
NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.



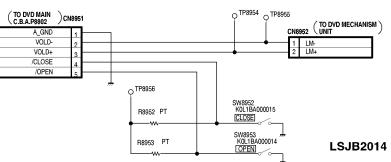
NOTE: For placing a purchase order of the parts,

be sure to use the part number listed in the parts list.

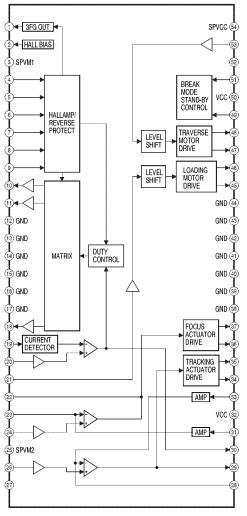
Do not use the part number on this diagram.



DVD SUB SCHEMATIC DIAGRAM



IC8801 IC-DETAIL BLOCK DIAGRAM

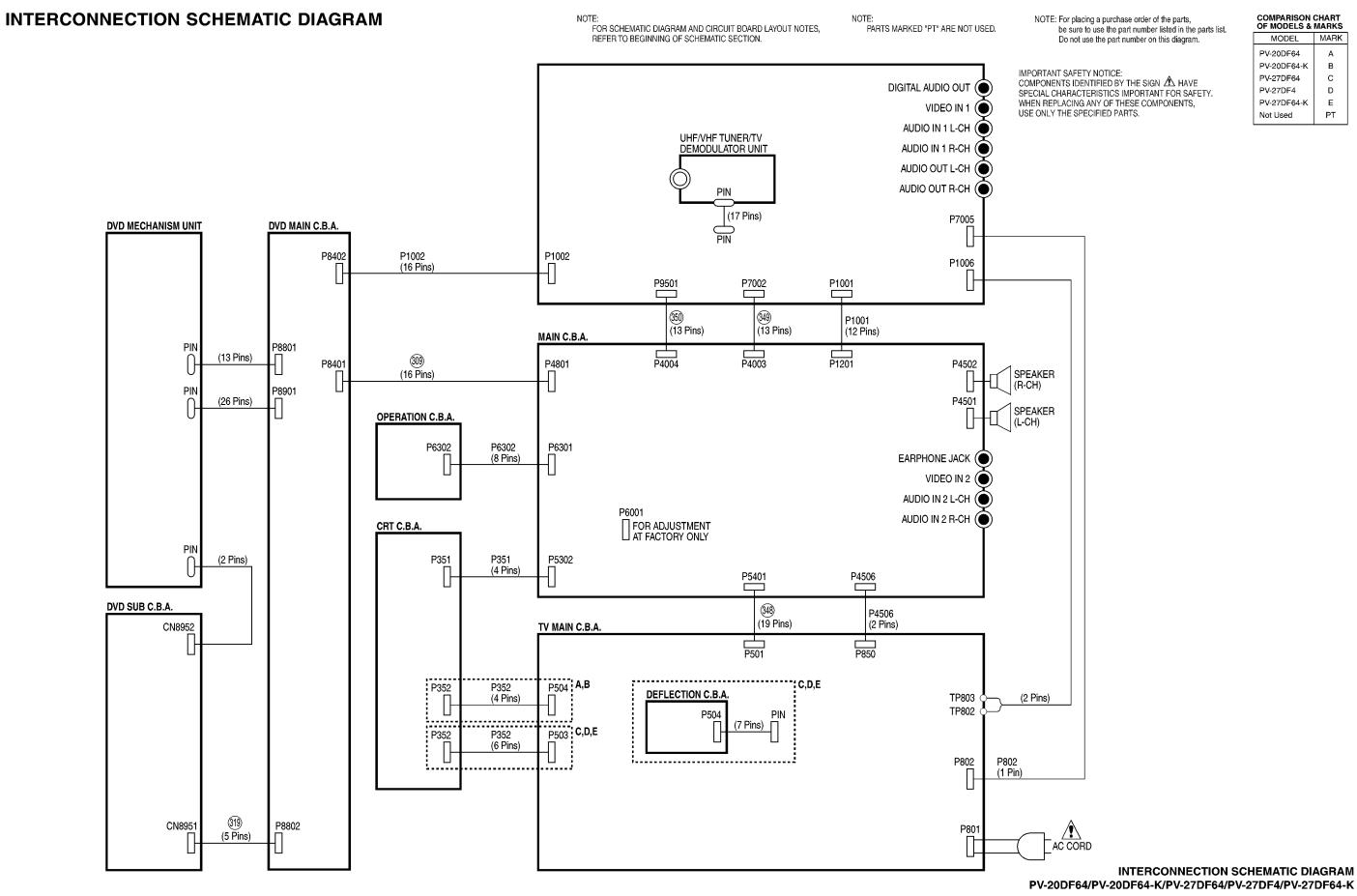


LINK TO VOLTAGE CHART

LSJB2145 **DVD MAIN III / DVD SUB SCHEMATIC DIAGRAM**

PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF4/PV-27DF64-K

8.9. INTERCONNECTION SCHEMATIC DIAGRAM



NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

MAIN C.B.A. (VIDEO/AUDIO SECTION)

.,	0.0.	(•	,				,
MODE IN NO.	STOP		MODE PIN NO.	STOP		MODE PIN NO.	STOP
C4301			24	4.5		45	
	E 0	ł	IC4701	4.5		46	
1	5.9	ł		5.0			2.7
2	5.8	ł	1	5.8		47	5.0
3	5.9	1	2	5.8		48	0.7
4	5.9	1	3	5.8		IC5351	
5	0	1	4	0		1	2.3
6	0		5	5.8		2	4.3
7	0	1	6	5.8		3	2.5
8	0	1	7	5.8		4	0.1
9	12.0	1	8	12.0		5	3.2
10	12.0	İ	IC5301			6	5.0
11	5.9	İ	1			7	0.3
12	5.9	i	2	0.1		8	0.5
		ł					
13	5.9	1	3	0.1		IC5651	
14	0		4			1	0
15	5.9		5	2.1		2	2.3
16	12.0		6	2.1		3	2.9
C4501			7	0.1		4	2.5
1	10.5		8	0.1		5	1.4
2	0		9	0		6	0
3	0		10	3.9		7	0
4	1.7	1	11	0.1		8	5.1
5	1.1	1	12	0.1		9	0
6	13.4	i	13	4.3		10	2.4
7	21.1	i	14	6.2		11	2.3
		ł					
8	10.7	ł	15	0.2		12	3.5
9	0	l	16	0.2		13	3.9
10	0		17	0		14	1.7
11	0	1	18	0.2		15	3.8
12	10.7		19	0.2		16	5.1
13]	20	0.2			
C4601			21	0.2		Q4701	
1	4.5	1	22	3.8		Е	5.4
2	4.5	1	23	3.8		С	12.0
3	4.5	1	24	9.1		В	6.3
4	4.5	1	25	3.6		Q5301	-,0
5	4.5	1	26	9.0		E	3.2
6	4.5	1	27	0		C	9.1
		1					
7	4.5	1	28	0		В	3.8
8	2.2	1	29	0		Q5302	
9	4.5		30	5.8		E	5.2
10	5.2		31	6.3		С	9.1
11	4.5		32	3.5		В	5.7
12	4.5		33	6.4		Q5303	
13	2.8		34	8.2		Е	3.0
14	3.3]	35	0		С	9.0
15	2.8	1	36	0.1		В	3.7
		1	37	9.7		Q5353	
16		l	38	9.0		E	4.6
16 17	0 45			<i>3.</i> ∪	1		
17	4.5			0.0			
17 18	4.5 4.5		39	2.2		С	9.0
17 18 19	4.5 4.5 4.5		39 40	2.3		В	9.0
17 18 19 20	4.5 4.5 4.5 4.5		39 40 41				
17 18 19	4.5 4.5 4.5		39 40	2.3 2.4 0		В	
17 18 19 20	4.5 4.5 4.5 4.5		39 40 41	2.3 2.4		B Q5354	9.0

/MODE	STOP
PIN NO.\	-
Q5355	
Е	0
С	0
В	5.1
Q5381	
Е	0
С	3.9
В	0
Q5611	
Е	11.8
С	0
В	1.5
Q5612	
Е	0.1
O	12.1
В	0
Q5613	
Е	0
С	0
В	4.6
Q5614	
Е	0.6
С	12.1
В	1.2
Q5651	
Е	1.9
С	0
В	1.3
Q5652	
E	1.1
С	4.2
В	1.7
Q5653	
E	2.5
С	0
В	1.8
Q5655	
E	3.0
С	9.0
В	3.6
Q5656	
E	3.3
С	9.0
В	3.9
Q5657	
Е	1.6
С	7.5
В	2.1
Q5658	
	6.9
Q5658	9.0
Q5658 E	

MODE	OTOD	I
\ <u>MODE</u> PIN NO.\	STOP	
В	4.7	
Q5901		
E	9.1	
<u>C</u>	12.1	
В	9.7	
TP4001	4.6	
TP4004	5.1	
TP4011	0.6	
TP4014	4.8	
TP4591	10.1	
TP4592	10.1	
TP5009	0	
TP5019 TP5301	3.3	
TP5302	3.3	
TP5303	3.5	
TP5305	2.9	
TP5308	2.2	
TP5310	8.4	
TP5311	5.0	
TP5312	1.0	
TP5313	0.3	
TP5401	4.0	
TP5402 TP5501	2.3 0.7	
TP5503	1.7	
TP5504	0	
TP5505	0	
TP5506	5.7	
TP5651	2.5	
TP5652	6.9	

	C.B.A						
SYST	EM C	ONT	ROL/S	ERV) SE	CTION)
MODE PINNO.\	STOP		MODE PIN NO.	STOP		MODE PIN NO.	STOP
IC6001			55	2.6		IC6005	
1	5.2		56	0	1	1	5.1
2	5.2		57	0	1	2	5.0
3	5.2		58	0.3	1	3	0
4	5.2		59	0.4	1	4	0
5	5.2.		60	0	1	5	5.0
6	2.6		61	0	1	6	0
7			62	0	1		
8			63	0	1	Q6003	
9			64	0	1	Е	0
10			65	0	1	С	0.1
11			66	2.0		В	0.6
12	0.3		67	2.0		Q6005	
13			68	00		Е	5.1
14	5.1		69	0.3		С	5.0
15	5.2		70	5.1		В	4.3
16	5.2		71	3.2		Q6006	
17	5.2		72	2.8		Е	0
18			73	0		С	5.0
19			74			В	0
20			75				
21			76			TP6007	5.1
22	0.1		77			TP6008	0
23	5.2		78	5.2		TP6009	5.2
24			79	0.1		TP6013	0
25	5.2		80	0.1		TP6099	5.1
26	0		81	5.2		TP6101	5.2
27	5.2		82			TP6104	5.2
28	5.0		83		ļ	TP6106	5.2
29	0		84		ļ	TP6111	0
30			85	0.2			
31			86	2.6			
32			87	2.6	l		
33			88	0			
34	5.2		89	0.3			
35	0		90	1.4			
36 37	5.2 5.2		91 92	2.6	ł		
				2.6			
38 39	2.4 2.4		93 94	2.6			
40	0		95	2.6	1		
41	5.0		96	2.6			
42	5.2		97				
43	5.2		98	5.2			
44	2.5		99	5.2			
45	2.5		100	0.3	1		
46	0		IC6004	0.0	1		
47	0		1	0	1		
48	5.1		2	0	1		
49	0		3	0	1		
50			4	0			
51	0.6		5	5.2	1		
52			6	5.2	1		
~-		ı	⊢		1		

						DEFLI	ECTIO
TV MA	AIN C.	B.A.				(C, D,	E)
MODE PIN NO.	STOP		MODE PIN NO.	STOP		MODE PIN NO.	STOP
IC451		ł		140.4			
	40.0		TP501		ł	IC752	
1	10.2	ļ	TP503	0		1	3.0
2	3.9	Į	TP541	0	ļ	2	3.7
3	5.1	ļ	TP551	-2.4	l	3	3.7
4	6.2	ļ	TP552			4	0
5	0		TP553			5	5.3
6	5.1		TP554	23.7		6	0.1
7	4.6		TP556	213.5		7	6.9
8	27.2		TP558	17.1		8	12.0
9	2.3		TP809	0			
10	1.2		TP810	0.2		Q751	
11	0		TP851	130.0		Е	0.1
12	14.7	1	TP852	0		С	23.4
13	27.7	1				В	0.6
IC850		1			1	Q753	
1	2.0	1				E	7.4
2	0.2	1			l	C	0.6
3	124.9	1			1	В	6.9
4	17.0	i				Q754	-0.0
5	0	ł			l	E	1.8
- 3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ł			1	C	
0404		ł					7.4
Q431	_	ł				В	2.4
E	0	ļ					
С	0					TP751	3.0
В	0.3					TP752	6.5
Q501							
E	0						
С	80.1						
В	0.4						
Q523							
Е	130						
С	0.2						
В	129.6	1			1		
Q541		1					
Е	4.4	1			1		
C	0.2	1			1		
В	3.9	1					
Q551		1			1		
E	0	1					
C	<u> </u>	l					
В	0	ł					
Q571	- ' -	ł					
	1 4	ł	<u> </u>				
E	1.4	ł	<u> </u>				
C	11.7	1					
В	1.7						
Q591	<u> </u>	l					
E	0						
С	12.2	1					
В	0						
Q801]					
E	0						
С	0.2						
В	0.8]					
		1]		
-		1			i	I	

COMPARISON CHART OF MODELS & MARKS ON C.B.A.

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	Е

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

POWER SUPPLY C.B.A.

POWE	:R SU	PPL	Y C.B.	Α.	
MODE	STOP	1	MODE	STOP	
PIN NO.	0101		PIN NO.	0101	
		ł			l
IC1001			IC9501		ı
1	173.6		1	0	
2	0.4]	2	0	l
3	0		3	0	
4	20.8	1	4	0	
5	2.3	i	5	0	ı
	2.0	l	6	0	ı
104000		ł			l
IC1002		l	7	0	l
1	5.1		8	5.1	l
2	4.1]			l
3	4.5		Q1004		
4	20.8	1	Е	31.1	l
IC1003		i	С	1.0	١
1	2.5	i	В	30.3	ı
	2.5	ł		50.5	ı
2	0		Q1006		ı
3	4.1		E	0	ı
IC1004			С	0	ı
1	0		В	0.7	ı
2	5.1	1	Q1007		ı
3	3.3	1	E	31.1	ı
4					ı
	3.3		С	30.3	ı
5	0		В	30.6	ı
IC9001			Q1008		ı
1			Е	0	ı
2	1.3		С	30.6	ı
3	2.5	i	В	-0.1	ı
4	1.3		Q1009	V.1	ı
		1			ı
5	0.5		E	5.1	ı
6	0.5		С	0	ı
7			В	5.6	ı
8			Q1010		ı
9	0.1]	Е	0.1	ı
10	5.0		C	12.2	ı
11	0.1		В	0	ı
	0.1			U	ı
12			Q1011		ı
13	1.3		E	0	ı
14	1.3]	С	5.6	ı
15	2.6		В	0.7	ı
16		1	Q1012		ı
17	0.5		E	0	ı
				0	١
18	0.5		С		ı
19	5.0		В	0	ı
20			Q1013		ı
21	4.2]	Е	12.2	ı
22	1.3		С	14.4	ı
23	1.3	1	В	12.7	l
24	5.0		Q1014		ı
				E 0	ı
25	0		E	5.2	ı
26			С	5.3	ı
27	0.1		В	6.0	ı
28	0.5		Q1015		ı
29	4.2	1	Е	0	l
30	4.2		C	12.7	ı
	4.2				ı
31			В	0.6	ı
32	2.6	l			ı

CRT C.B.A. CRT C.B.A. (A,B) (C.D.E)

/MODE PIN NO.

MODE STOP PIN NO.

2.0 5.1

2.0

0

2.0

6.0

Q7021 E C

В

Q7031 E 2.0 С

В

C 12.0 B 0 12.0

TP1008 31.1

TP1009 5.2

TP1010 4.6

TP1012 14.4 TP1013 12.2 TP1014 5.2 TP1015 3.3 TP1016 5.1 TP1017 6.0 TP1018 5.7 TP1019 0 TP1020 0 TP1021 30.3 TP1022 12.2 TP9001 6.0 TP9002 6.0 TP9501 0 TP9551 0 TP9552 0 TP9553 0 TP9554 0

Q9501 Е

(A,B)			(C,D,E	Ξ)	
\MODE PIN NO. \	STOP		MODE PIN NO.	STOP	
Q351			Q351		!
E	3.1		E	12.3	
C	131.1		С	142.3	
В	3.5		В	12.0	
Q352	0.0		Q352	12.0	
E	3.1		E	12.2	!
C	127.9		C	204.5	!
В	3.5		В	12.0	
Q353	0.0		Q353	12.0	
E	3.0		E	12.2	
C	131.9		C	199.5	
В	3.5		В	12.0	!
			Q354		
TP47	0		E	0.1	
TP49	3.5		С	12.2	
TP50	131.9		В	4.2	
			Q355		
			Е	2.1	
			C	12.2	
			В	2.6	
			Q356		
			E	2.2	!
			C	12.3	!
			В	2.7	
			TP46	4.2	
			TP47	0	
			TP48	2.6	
			TP49	2.7	
			TP50	199.4	
			TP51	204.6	
					!
					!
					l
					l
					l
					l
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	1	1			ı

MODE.	STOP		MODE	STOP	
PINNO.\	0.0		PIN NO.	0101	N F
IC8001			55		
1			56	3.4	I ⊢
					ŀ
2			57	3.4	I ⊢
3	0		58	3.3	! ⊢
4			59	3.3	! ⊢
5			60	3.4	!
6	3.3		61		
7			62	3.3	
8			63	0	!
9	0		64	0	!
10			65		!
11			66	3.4	!
12	3.3		67	3.4	. ⊢
13			68		!
14			69	3.4	. ∟
15			70		!
16	0		71	0.1	l L
17			72	1.2	l L
18			73	3.4	lL
19	3.3		74	0	l L
20	0		75	1.7	l L
21	3.4		76	2.4	
22	3.4		77		
23			78	0.1	
24			79		
25			80	3.4	
26	1.2		81		
27			82	3.1	
28	3.3		83		l L
29	0		84	3.3	l L
30	0.4		85		I
31	0.9		86		l L
32			87	0	l L
33			88		l L
34	3.3		89	1.2	l L
35	0		90	3.4	l L
36			91	3.4	l L
37			92	3.4	
38	2.2		93	0	
39			94		
40			95		
41			96		
42			97		
43	0.3		98	3.3	
44	1.2		99	0.9	l L
45	0.1		100	0	
46			101	2.4	J [
47			102	2.2	j [
48	3.3		103	1.9	J [
49	0		104	0.3	1
50			105	0] [
51		1	106	1.4	1
52	2	1	107	3.3	1
53	3.3		108	2.1	1 F
54			109		j þ
		-			

MODE	STOP	MODE	STOP
NNO.	0101	PIN NO.	Oloi
110	1.9	165	1.7
111	1.9	166	1.7
112	1.7	167	3.3
113	1.7	168	1.6
114	1.7	169	1.8
115	1.7	170	1.7
116	1.7	171	1.4
117	1.7	172	1.3
118	3.3	173	0
119	2.0	174	0
120	1.7	175	0
121	1.5	176	0
122	0	177	1.7
123	0.4	178	3.3
124	1.2	179	0
125	0.4	180	
126	0.2	181	
127	2.3	182	
128	1.7	183	
129	2.3	184	
130	2.2	185	
131	2.4	186	
132	2.4	187	
133	2.4	188	
134	2.4	189	
135	2.0	190	3.3
136	2.0	191	0
137	2.0	192	
138	2.0	193	1.5
139	1.8	194	1.5
140	1.0	195	
141		196	
142	3.4 1.3		3.3
	1.3	197	
143 144	2 1	198	
	2.1	199	
145 146	0.5	200 201	0
146		201	3.3
148	1.7 1.7	202	3.3
148	0.7	203	
150		204	0
	0		U
151 152	0.5	206	
153	0.5	207	
	1.4	208	22
154		209	3.3
155	2.2	210	
156	0.5	211	
157	0	212	
158	0.9	213	0
159	3.3	214	2.4
160	0	215	2.4
161	3.3	216	3.3

MODE Pin no.	STOP	MODE PIN NO.	STOP
220		18	
221		19	
222	0	20	
223		21	
224		22	
	3.3	23	
225		24	
226		1 -	
227		25	
228		26	2.2
229	0	27	0
230		28	2.0
231	3.3	29	
232	1.7	30	
233		31	
234	2.3	32	
235	0	33	
236	1.3	34	
237		35	
238		36	
239	3.3	37	3.3
240	3.0	38	0.0
241	3.3	39	
		1 1	
242	0	40	
243	1.9	41	
244	3.3	42	
245	3.2	43	
246	3.3	44	
247	0	45	
248	0	46	0
249	2.4	47	3.3
250	0	48	0.4
251	1.5	IC8003	
252		1	3.3
253	0	2	
254		3	3.3
255	3.3	4	
256		5	
IC8002		6	0
1		7	
2		8	
		l	2.2
3		9	3.3
4		10	
5		11	
6		12	0
7		13	
8		14	3.3
9	0.1	15	2.4
10	3.4	16	0
11	3.4	17	3.2
12	3.4	18	3.3
13		19	3.0
14	3.3	20	2.3
15	0.9	21	1.7
IJ I	0.5	22	1.7
16	0.9		

COMPARISON CHART OF MODELS & MARKS

OI MODELO & MAINS						
MARK						
Α						
В						
С						
D						
Е						

VOLTAGE CHART PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF4/PV-27DF64-K

162 0

163 1.8

164 0

217 ---

218 0

219 1.3

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

\ <u>MODE</u> PIN NO. \	STOP		MODE PIN NO.	STOP		MODE PIN NO.	STOP		\ <u>MODE</u> PIN NO. \	STOP		MODE PIN NO.	STOP	MODE PIN NO.	STOP		MODE PIN NO.	STOP	
24] [6	5.0		35	0.8		В	0		TP8025	1.7	TP8819	0.7		TP8954	0.6	
25] [7	0.1		36	0.7		Q8901			TP8026	1.5	TP8820	0		TP8955	0.7	
26			8	0.1		37	0.7		Е	0.1		TP8027	1.6	TP8901	0.1				
27	3.3		9	0		38	0		С	0		TP8028	1.6	TP8902	5.1				
28	0	l L	10	0		39	0		В	0		TP8029	1.5	TP8903	5.1				
29		l L	11			40	0		Q8902			TP8030	1.5	TP8904	5.1				
30		1 L	12			41	0		E	5.1		TP8031	1.7	TP8905	0				
31			13	1.6		42	0		С	0		TP8032	0.1	TP8906	0.4				
32		!	14	0.4		43	0		В	5.1		TP8033	0.1	TP8907	0.2				
33		!	15	3.3		44	0		Q8903			TP8034	0.1	TP8908	0				
34		!	16	0.3		45	0.9		E	5.1		TP8401	0.5	TP8909	0				
35		!	IC8503			46	0.9		С	0		TP8402	1.2	TP8910	0.1				
36		┨	1	6.2		47	0.8		В	5.1		TP8403	0.4	TP8911	5.0				
37	3.3	 	2	1.0		48	8.0		Q8904	- 4		TP8404	0.5	TP8912	2.3				
38	3.3		3	6.2		49	0.1		E	5.1		TP8405	0.5	TP8913	2.3				
39 40	1.5	┨	<u>4</u> 5	0 6		50 51	6.0		C B	0 5.1		TP8406 TP8407	1.6 0	TP8914	2.3	-			
40	0	┨	6	6	1	51 52	0.1 1.7	1	Q8905	5.1	1	TP8407	2.1	TP8915 TP8916	2.5	-			
42		┨	7	0.1		52 53	1.7	1	E	0		TP8409	0	TP8917	2.5	-			
43	3.3	┧	8	12	1	54	5.0	1	C	3.9	1	TP8410	0	TP8918	0	-			
44		┨	IC8801	12		Q8401	5.0	1	В	0.3		TP8411	0	TP8919	2.3				
45		┧	1	2.3		E	0.5		Q8906	0.0		TP8412	0	TP8920	2.3	1			
46	0	1	2	5.9	1	C	0.5		E	5.0		TP8416	0	TP8921	2.3				
47		1	3	6.1		В	1.2		C	5.1		TP8504	0	TP8922	2.3	1			
48		1	4	5.9	1	Q8402			В	0.1		TP8505	1.6	TP8923	2.3				
49	3.3	1	5	5.9		E	0		Q8907	• • • • • • • • • • • • • • • • • • • •		TP8506	3.3	TP8924	0				
50		1	6	5.9	i	C	0		1	0.5	İ	TP8507	3.1	TP8925	0.3				
51		1	7	0.1	i	В	1.8		2	0		TP8508	3.3						
52	0	1 [8	5.9		Q8403			3	0.2		TP8509	0			1			
53		1 [9	5.9	1	Е	0.9	1	4	0.1		TP8510	1.7						
54	0] [10	2.7		С	0		5	0.1		TP8511	2.6						
IC8004			11	2.7		В	1.6					TP8512	2.6						
1	0		12	0		Q8404			TP8001	0		TP8519	6.0						
2	0	l L	13	0		Е	1.4		TP8002	0		TP8520	6.0						
3	0	1 L	14	0		С	0		TP8003	2.2		TP8521	0						
4	0	!	15	0		В	2.1		TP8005	4.4		TP8522	12.0						
5	3.3	!	16	0		Q8501			TP8006	3.4		TP8523	5.1						
6	3.2	!	17	0		E	0		TP8007	3.4		TP8801	0.8						
7	0	∤	18	2.7		С	3.3		TP8008	4.8		TP8802	0.6						İ
8	3.3	∤ ⊦	19	6.1		В	3.3		TP8009	2.9		TP8803	5.7	\vdash					İ
IC8005	4.0	∤ ⊦	20	1.7		Q8502	0.0		TP8010	3.5		TP8804	5.6						İ
1	1.2	∤ 	21	0.8		E	3.3	1	TP8011	3.3		TP8805	1.8			-			İ
2	1.1	┨	22	0.5 0.9		C B	0		TP8012	1.3 3.3		TP8806 TP8807	1.8			-			
3 4	3.3	┨	23 24			Q8503	U		TP8013 TP8014	0			1.8						
5	3.3 0	1	25	1.0 6.1		<u>Q8503</u>	3.3		TP8014			TP8808 TP8809	1.7 0.4			-			
6	0		26 26	1.0		C	0		TP8016	0		TP8810	1.4						
7	2.2	1 H	27	1.7		В	0	1	TP8017	0	1	TP8811	1.4						İ
8	2.2	1	28	0.9		Q8504	U	1	TP8018	1.7	1	TP8812	2.7						İ
IC8501	L.L	1	29	0.6		E	0		TP8019	1.8		TP8813	5.9						İ
1	1.7	1	30	0.8		C	0	1	TP8020	1.7		TP8814	1.7			1			İ
2	0.1	1	31	0.8		В	0.1	1	TP8021	0	1	TP8815	1.7			1			İ
3	1.7	1	32	5.0	1	Q8505	941	1	TP8022	1.6	1	TP8816	0.6			1			İ
4	0	1	33	0.8	1	E	0.1	1	TP8023	1.4	1	TP8817	0.6			1			İ
5	3.3	1 F	34	0.8	1	c	3.3	1	TP8024	2.0	1	TP8818	0.6			1			İ
					• '			•			•					• '			•

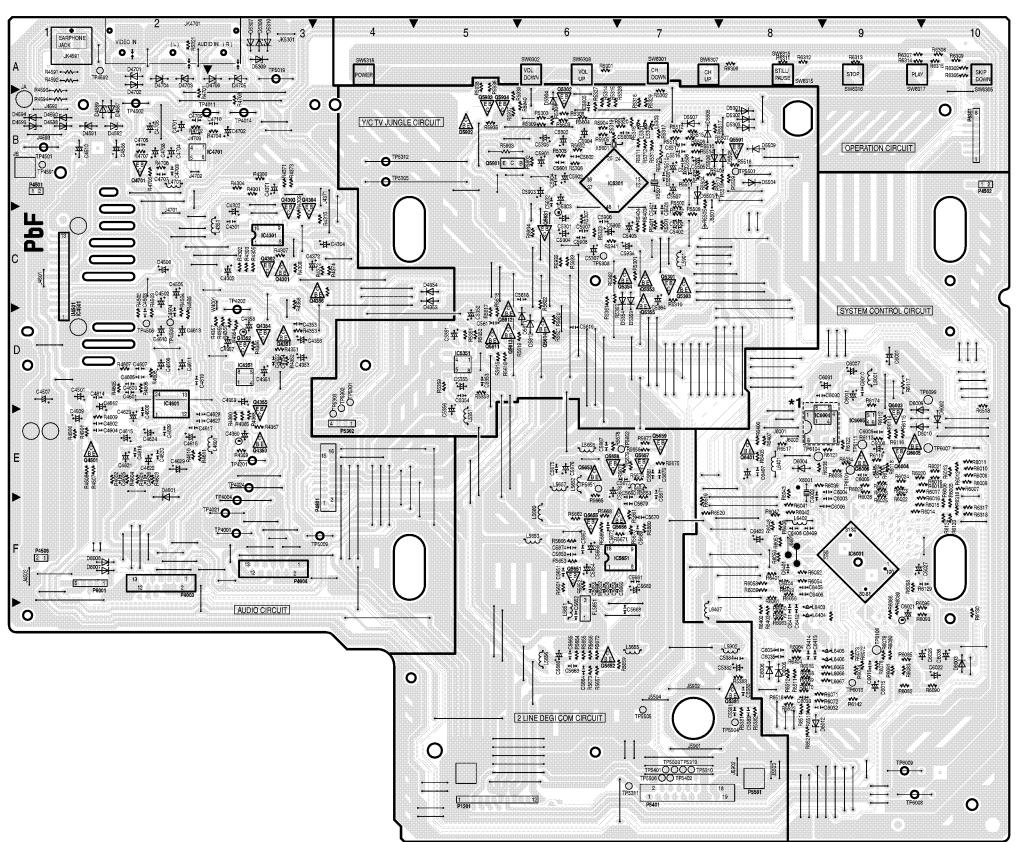
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PV-20DF64 / PV-27DF64 / PV-27DF4 / PV-20DF64-K / PV-27DF64-K

9 CIRCUIT BOARD LAYOUT

9.1. MAIN C.B.A.

MAIN C.B.A. LSEP2150B (A,B) / LSEP2150A (C,D,E)



COMPARISON CHART

OF MODELS & MARKS							
MODEL	MARK						
PV-20DF64	Α						
PV-20DF64-K	В						
PV-27DF64	С						
PV-27DF4	D						
PV-27DF64-K	E						
	MODEL PV-20DF64 PV-20DF64-K PV-27DF64 PV-27DF4						

NOT

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

*1 Note

There are 2 types of EEPROM IC (IC6004) used on the Main C.B.A. (DIP TYPE and SOP TYPE) However, these are same reliability.



DR



Be sure to install DIP type IC from the component side as shown in Fig. 1.
Be sure to intall SOP type IC from the foil side as shown in Fig. 2.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

MAIN C.B.A. LSEP2150B/LSEP2150A PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF64-K

9.2. TV MAIN C.B.A.

TV MAIN C.B.A. LSEP2151F (A,B) / LSEP2151E (C,D,E)

COMPARISON CHART OF MODELS & MARKS

MODEL MARK PV-20DF64 PV-20DF64-K PV-27DF64 PV-27DF4 D PV-27DF64-K

IMPORTANT SAFETY NOTICE:

USE ONLY THE SPECIFIED PARTS.

COMPONENTS IDENTIFIED BY THE SIGN A HAVE

WHEN REPLACING ANY OF THESE COMPONENTS,

SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 6.3A 125V/250V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME

NOTE: CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

COLD COLD COLD 00 J753 J752 0 0 0 **Æ**RL591 0 C575 **Æ** RL801 COLD DY HOT HOT \mathbf{O} Q801 E C B COLD <u>^</u>1C803 COLLECTOR H.V DANGER COLD COLD \bigcirc FBT <u></u>1551 COLD COLD 0 0 0

HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING.

TV MAIN C.B.A. LSEP2151F/LSEP2151E PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF4/PV-27DF64-K

9.3. POWER SUPPLY C.B.A.

POWER SUPPLY C.B.A. LSEP2155C

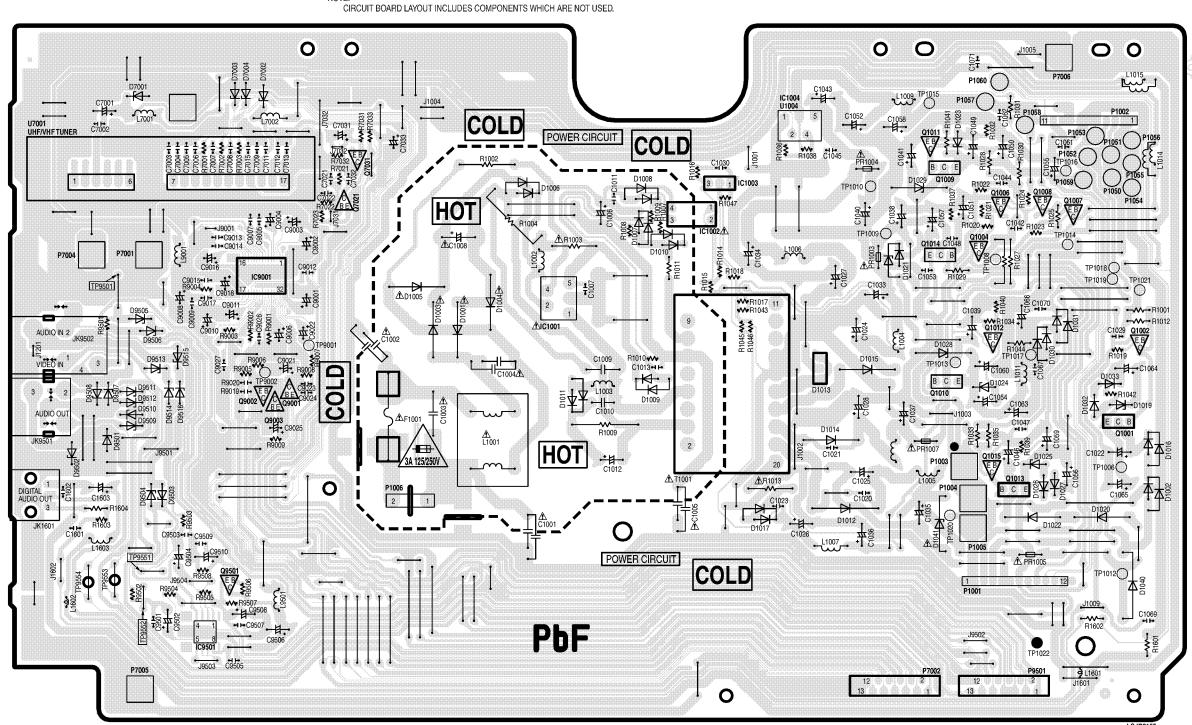
NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

OTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 3A 125V/250V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 3A 125V/250V

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING.

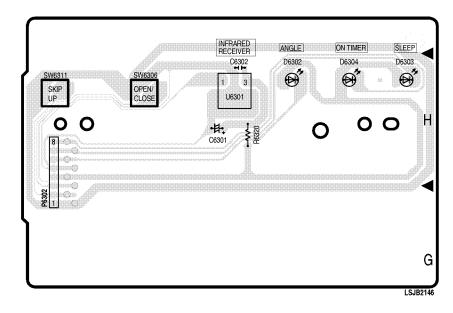
POWER SUPPLY C.B.A. LSEP2155C PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF64-K

9.4. OPERATION / CRT / DEFLECTION C.B.A.

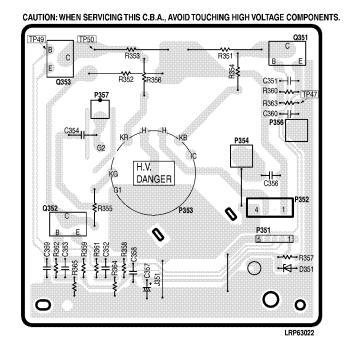
OPERATION C.B.A. LSEP2146A

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE: CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



CRT C.B.A. LRP63022W (A,B)



FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES. REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	Е

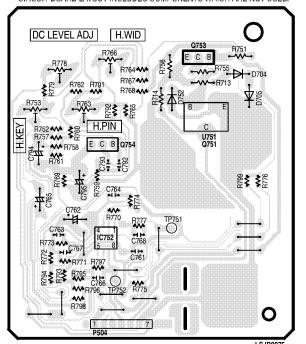
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

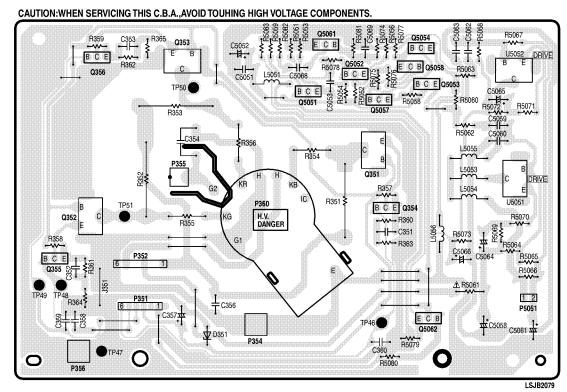
DEFLECTION C.B.A. LSEP2075A (C,D,E)

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



CRT C.B.A. LSEP2079B (C,D,E)



CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

OPERATION C.B.A. LSEP2146A DEFLECTION C.B.A. LSEP2075A CRT C.B.A. LRP63022W CRT C.B.A. LSEP2079B

PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF4/PV-27DF64-K

(DUAL PATTERNS)

DVD MAIN C.B.A. LSEP2145A (COMPONENT SIDE) (FOIL SIDE) 0 0 0 **-1 |-** €8027 **◆♦** R8003 ◆**A** R8002 PbF 0 0 0

NOTE.

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

VOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

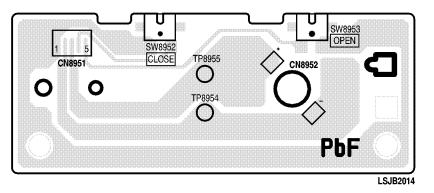
DVD SUB C.B.A. LSEP2014A

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



DVD MAIN C.B.A. LSEP2145A

DVD SUB C.B.A. LSEP2014A

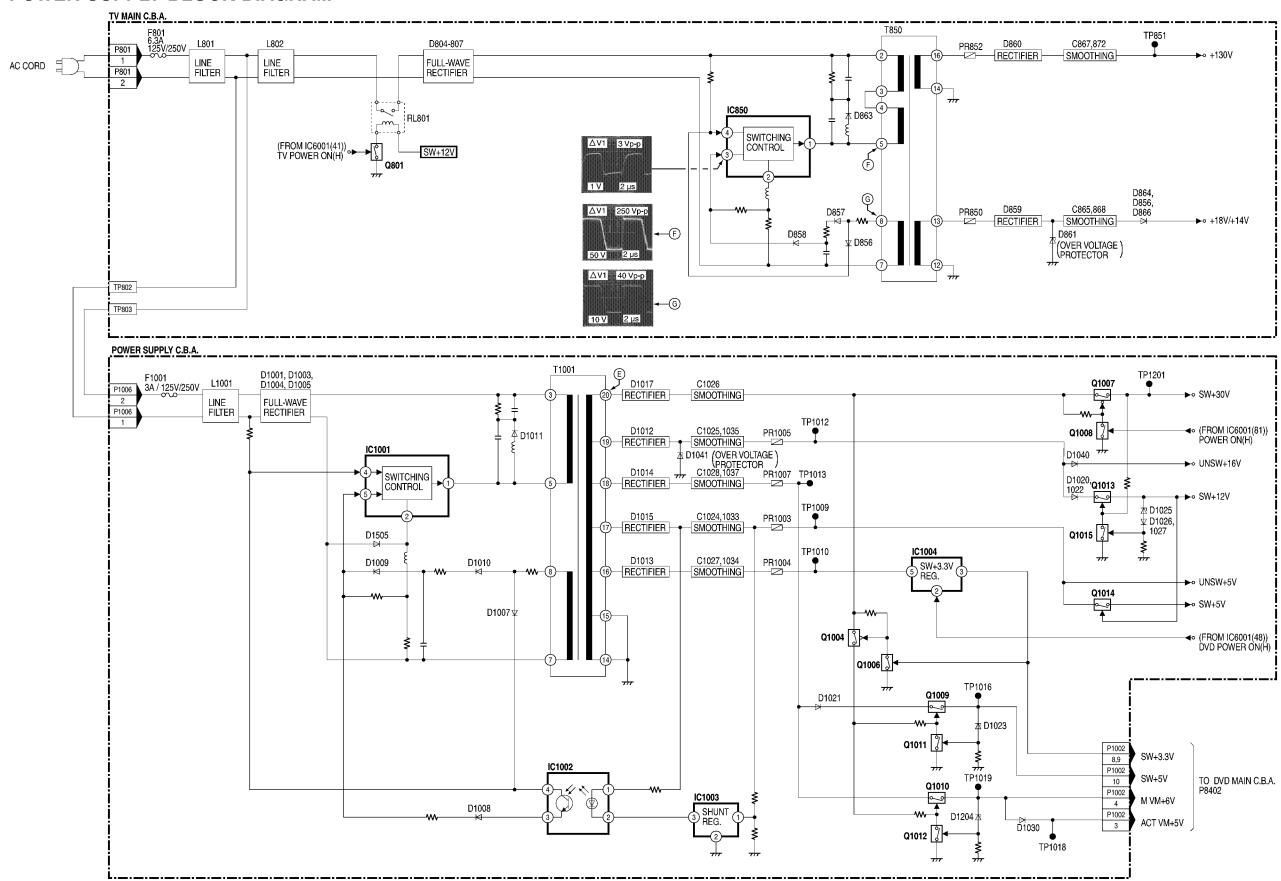
PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF64-K

(DUAL PATTERNS)

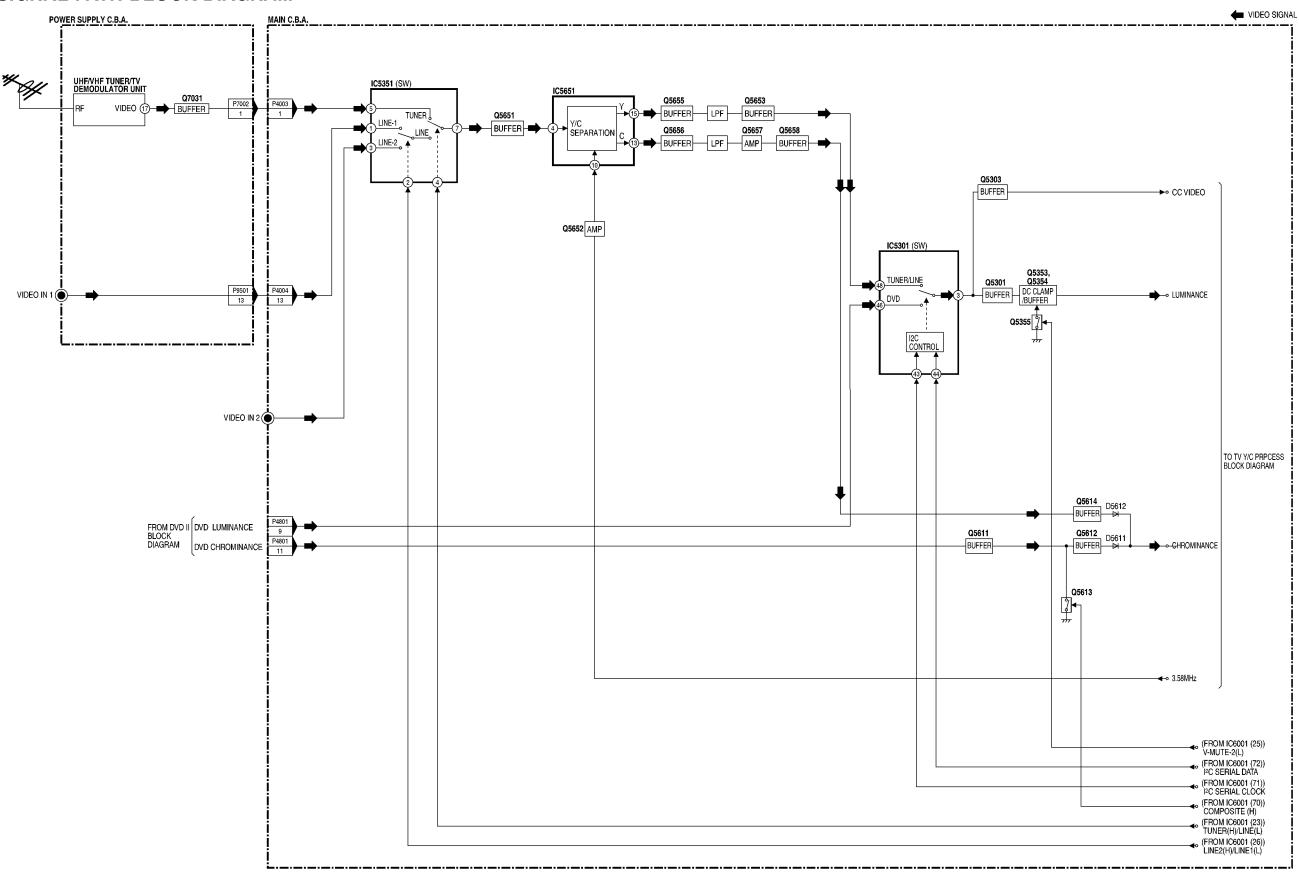
PV-20DF64 / PV-27DF64 / PV-27DF4 / PV-20DF64-K / PV-27DF64-K

10 BLOCK DIAGRAMS

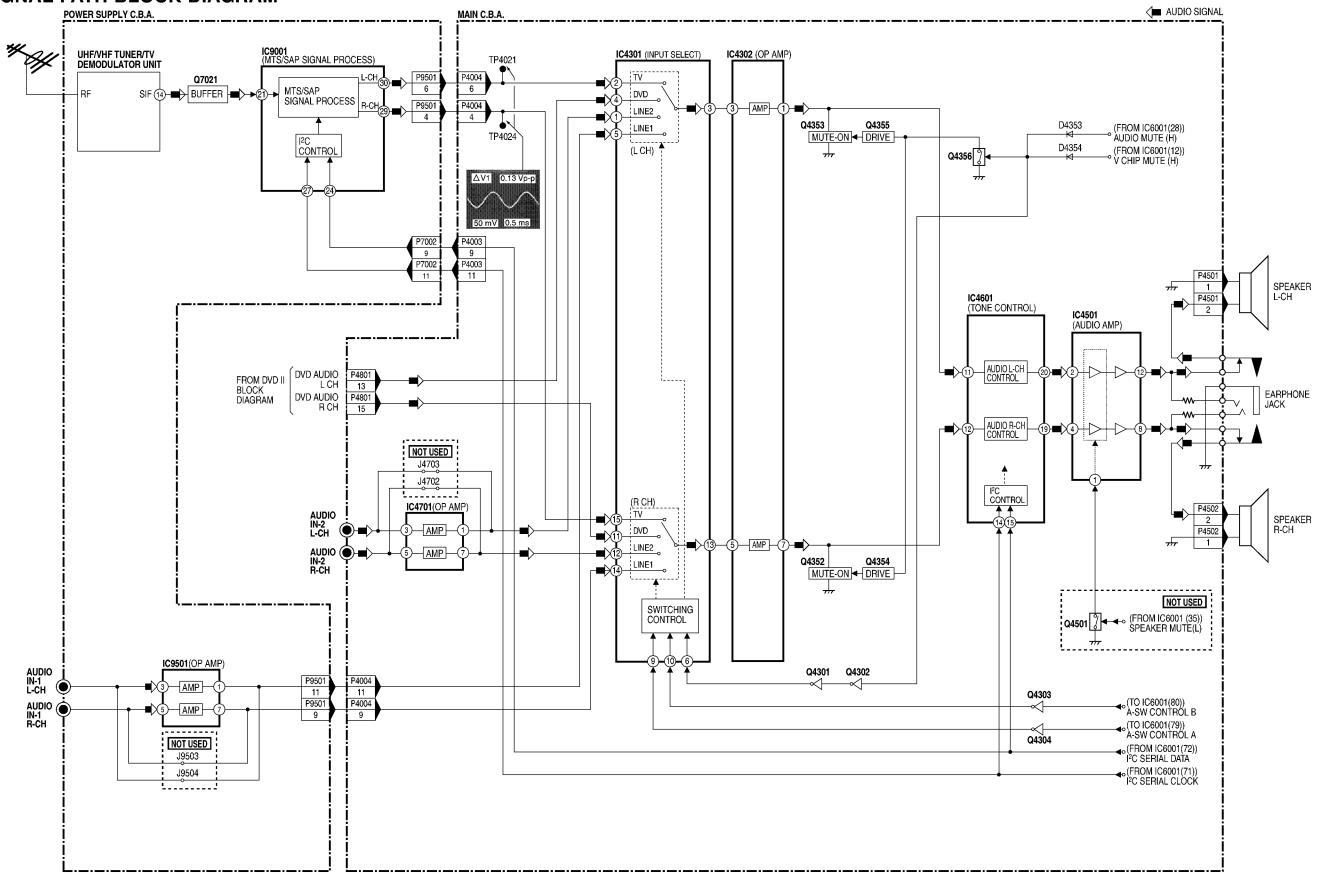
POWER SUPPLY BLOCK DIAGRAM



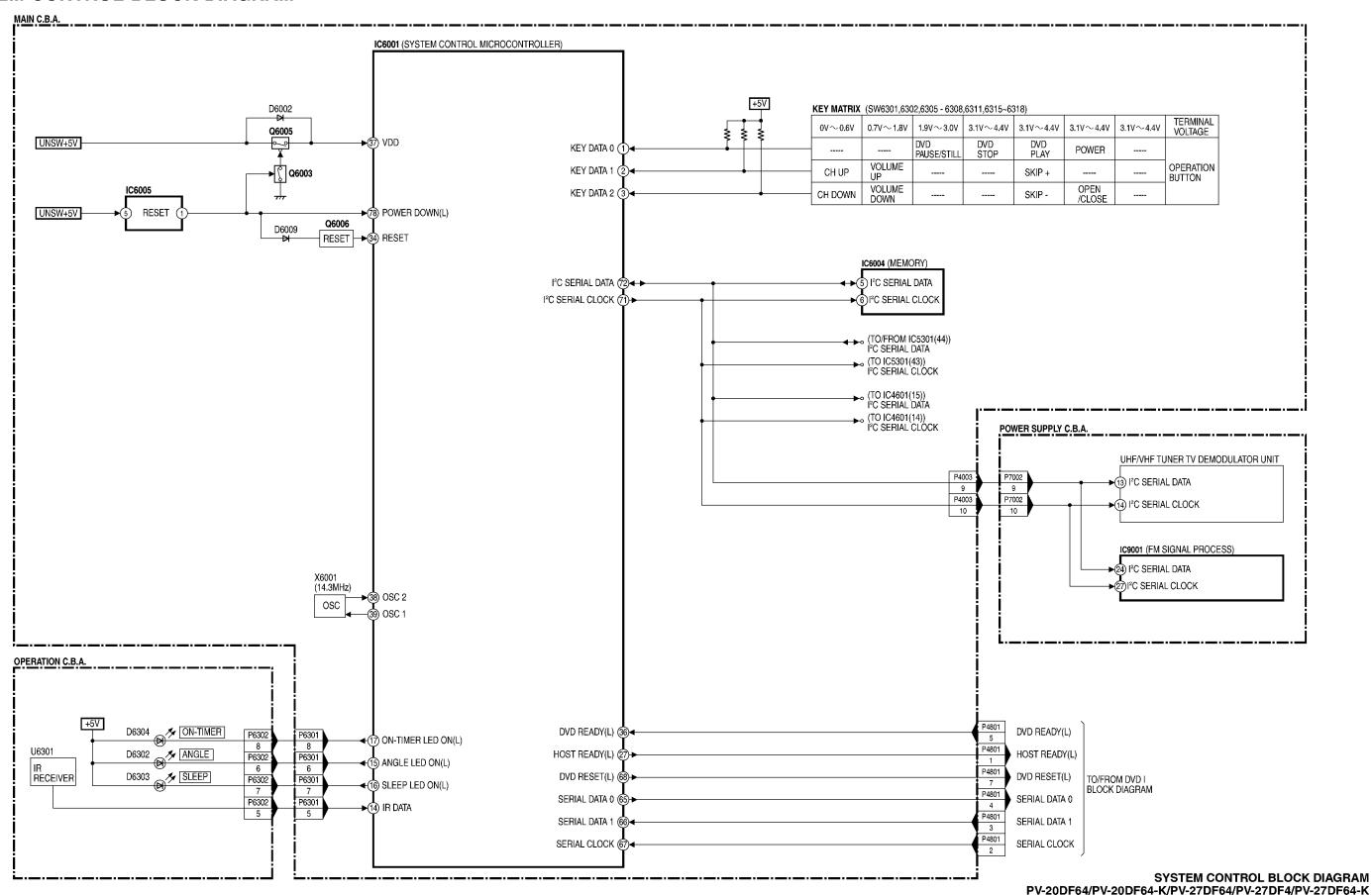
VIDEO SIGNAL PATH BLOCK DIAGRAM



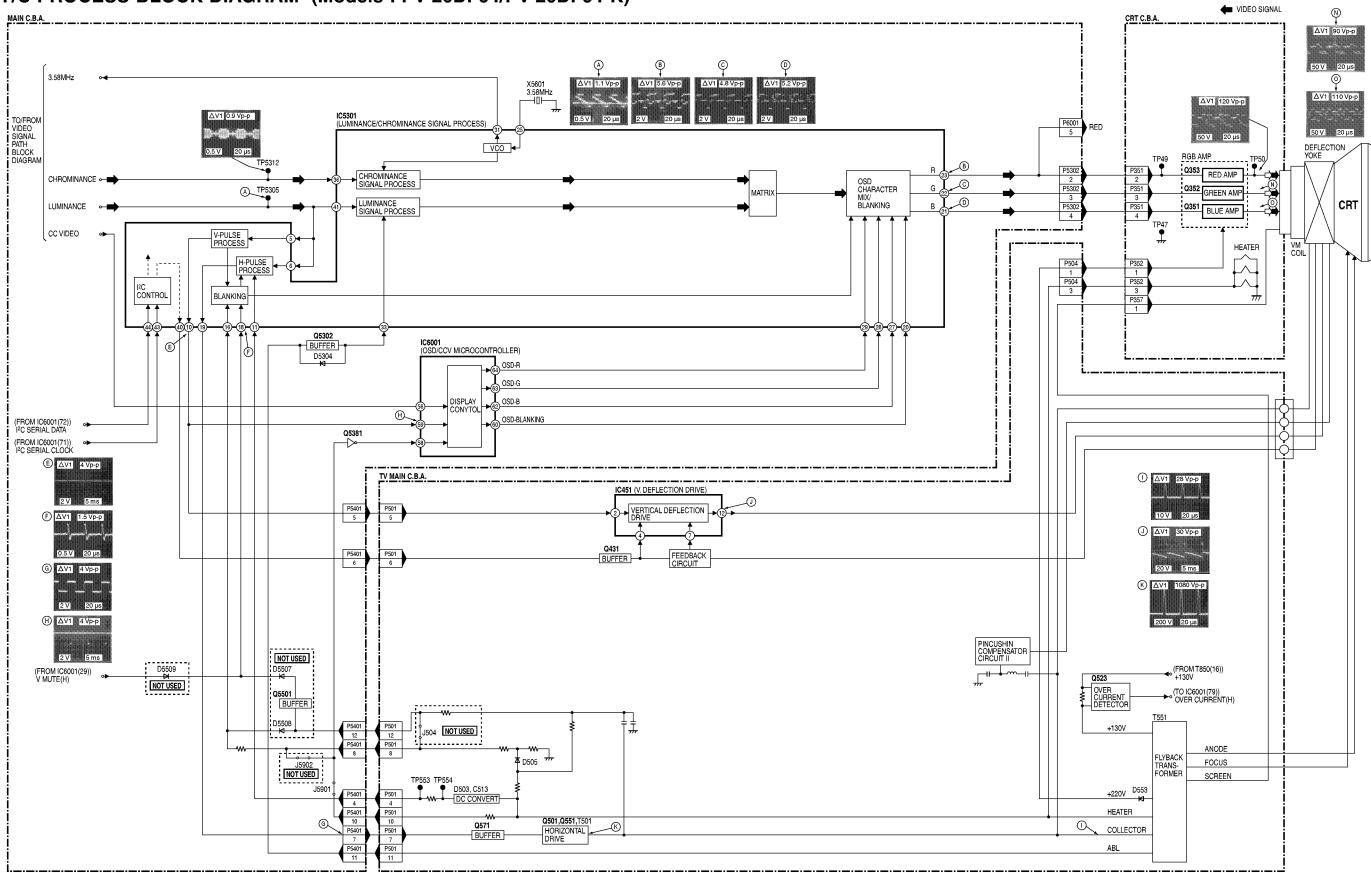
AUDIO SIGNAL PATH BLOCK DIAGRAM



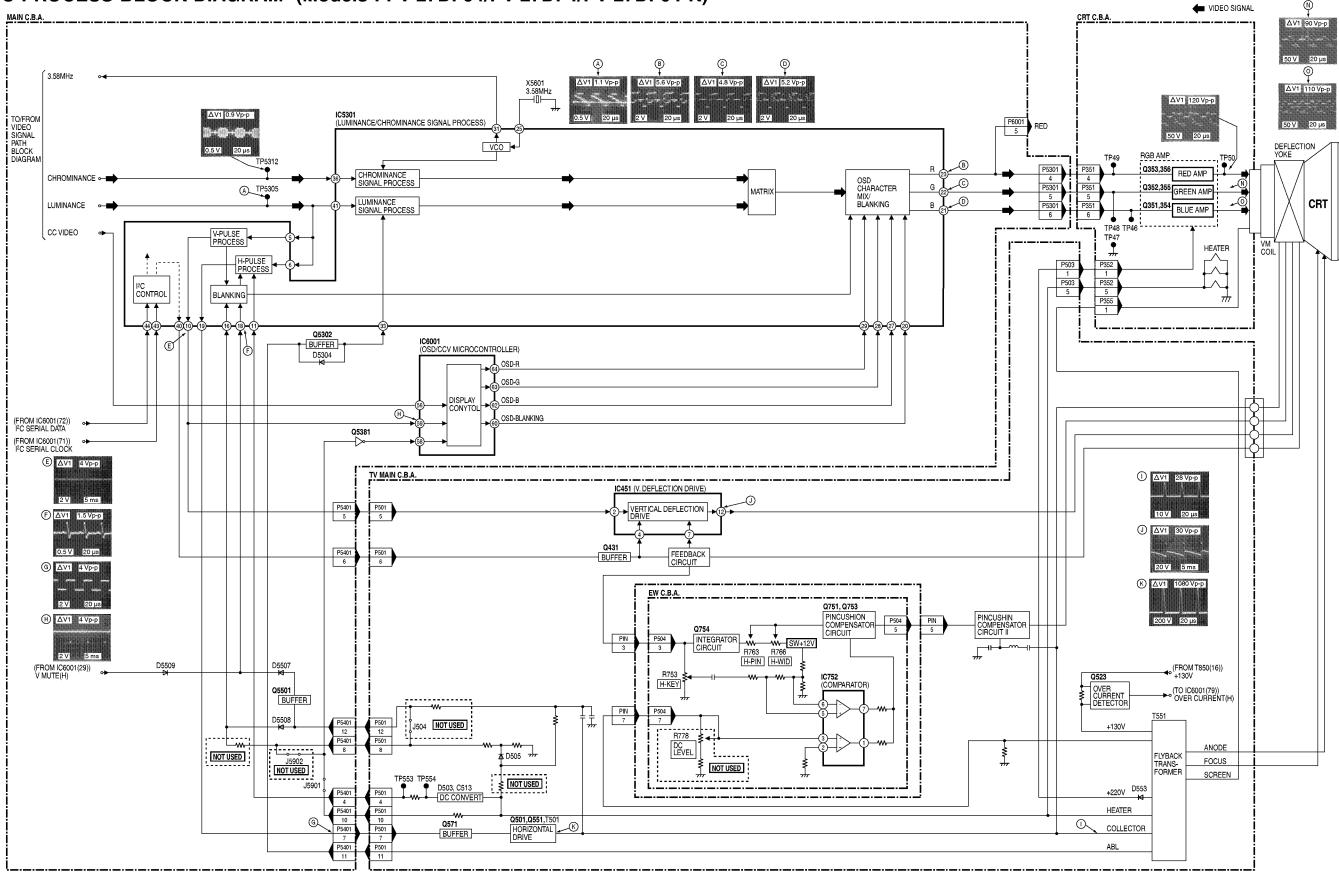
SYSTEM CONTROL BLOCK DIAGRAM



TV Y/C PROCESS BLOCK DIAGRAM (Models: PV-20DF64/PV-20DF64-K)

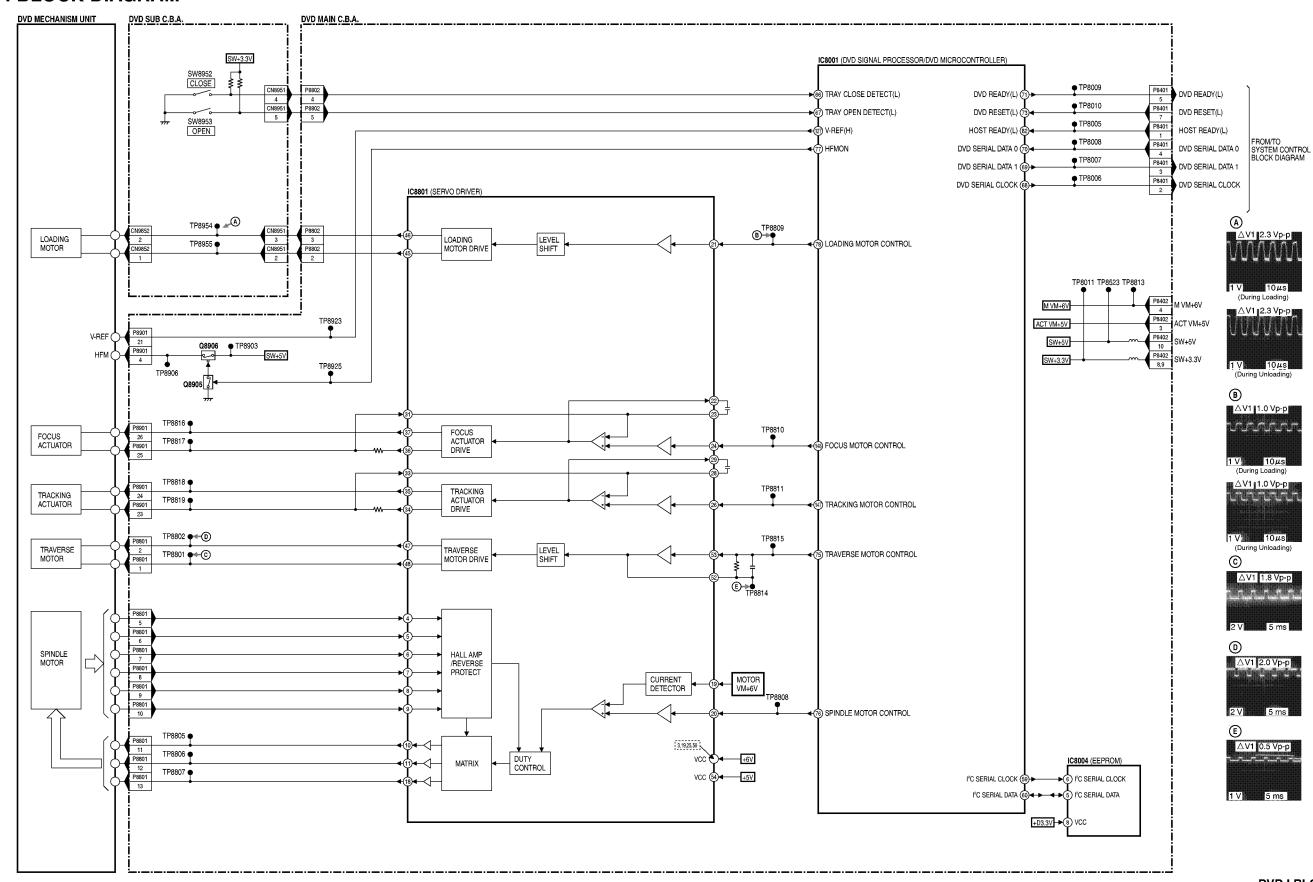


TV Y/C PROCESS BLOCK DIAGRAM (Models: PV-27DF64/PV-27DF4/PV-27DF64-K)

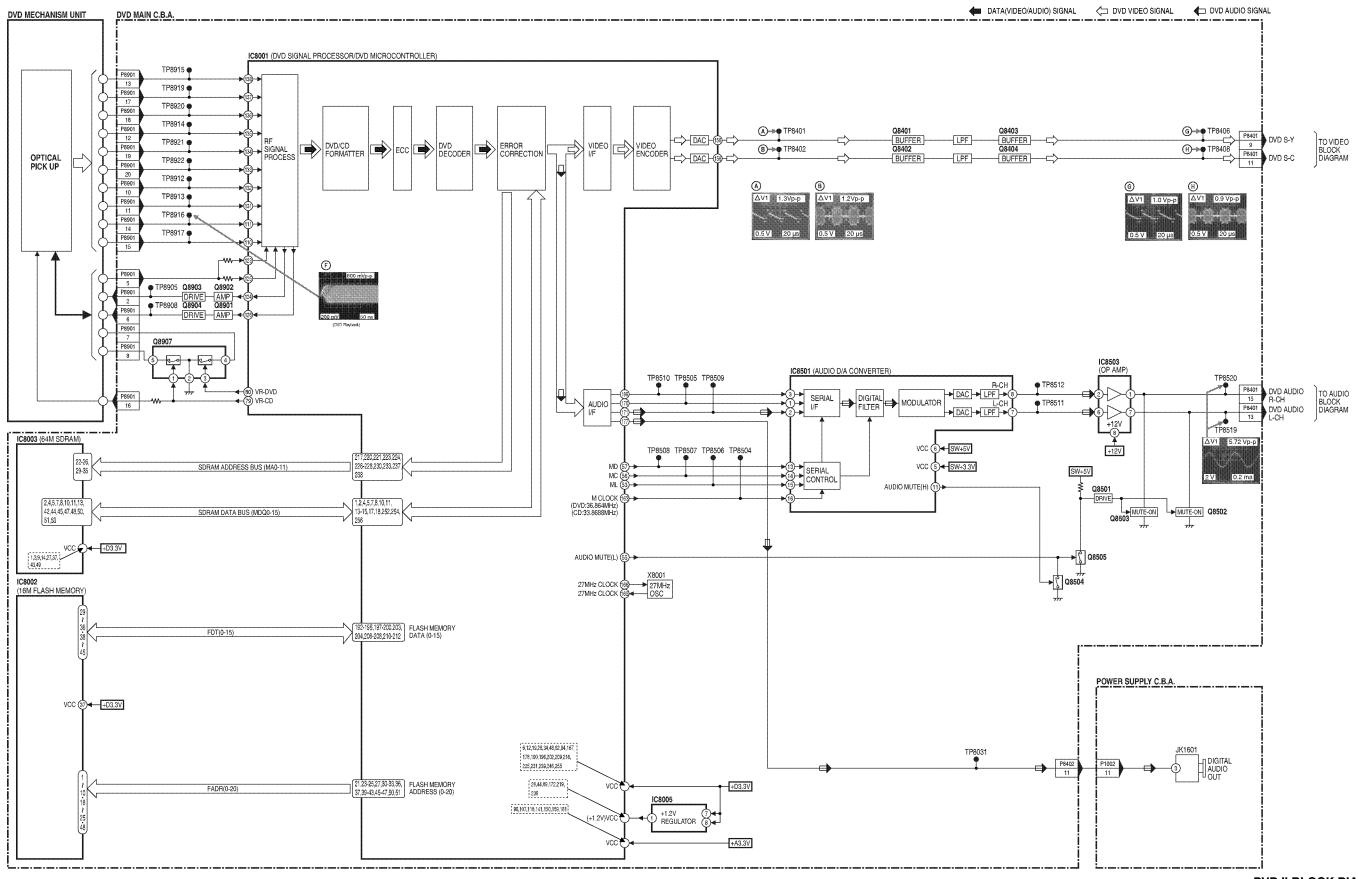


TV Y/C PROCESS BLOCK DIAGRAM PV-27DF64/PV-27DF4/PV-27DF64-K

DVD I BLOCK DIAGRAM



DVD II BLOCK DIAGRAM



DVD II BLOCK DIAGRAM PV-20DF64/PV-20DF64-K/PV-27DF64/PV-27DF64-K

Troubleshooting Hints

How to confirm whether DVD circuit or other circuits is defective.

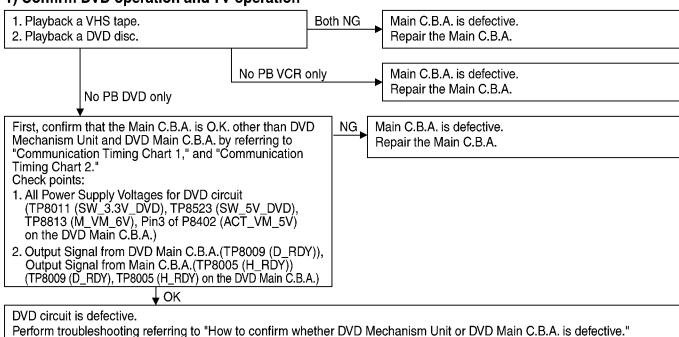
NOTE:

Host communication may not occur correctly between IC6001 on the Main C.B.A. and IC8001 on the DVD Main C.B.A. when there is a problem on the DVD Main C.B.A.

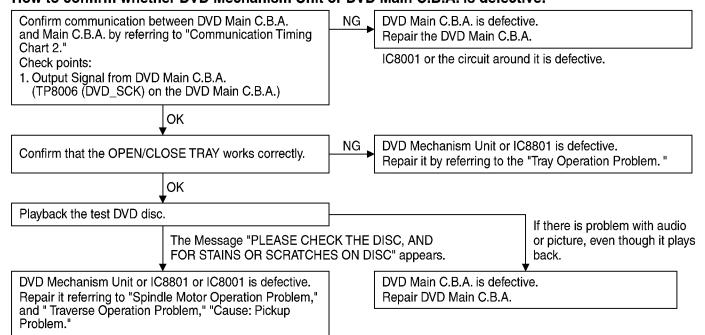
(Serial Data Communication failure between IC6001 and IC8001 within 30sec. IC6001 will switch automatically to TV.) (Check the TV mode and DVD mode.)

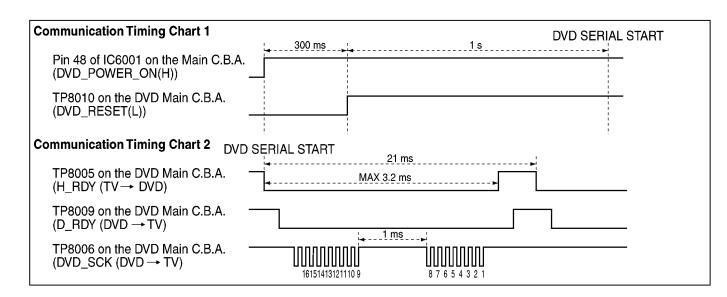
Check the voltage during the 30 seconds during which the unit remains in DVD mode.

1) Confirm DVD operation and TV operation



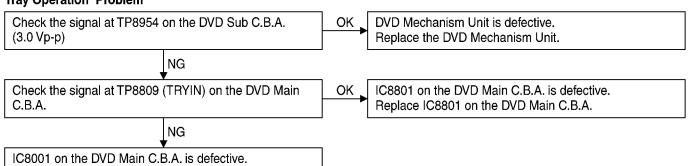
How to confirm whether DVD Mechanism Unit or DVD Main C.B.A. is defective.

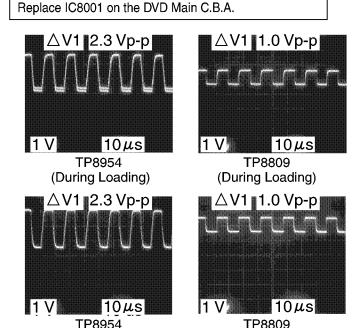




Troubleshooting Hints of DVD Mechanism Unit

Tray Operation Problem



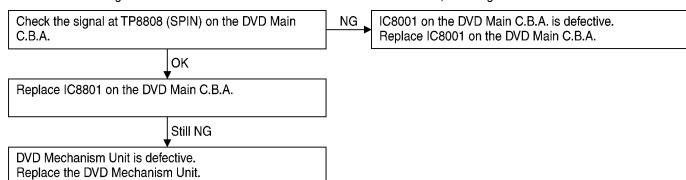


(During Unloading)

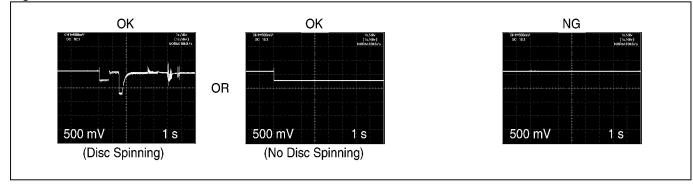
(During Unloading)

Spindle Motor Operation Problem

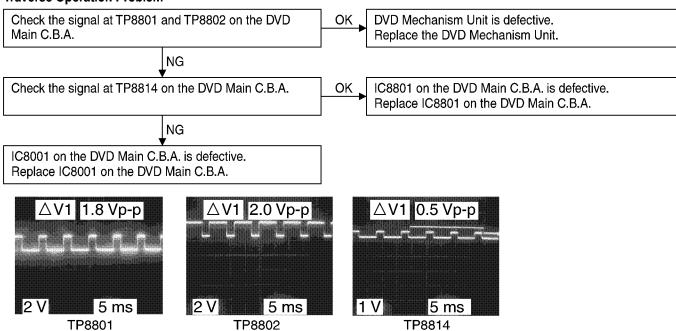
Note: Check the signal at TP8808 as soon as disc has been inserted. Otherwise, following waveform can not be monitored.



Signal at TP8808

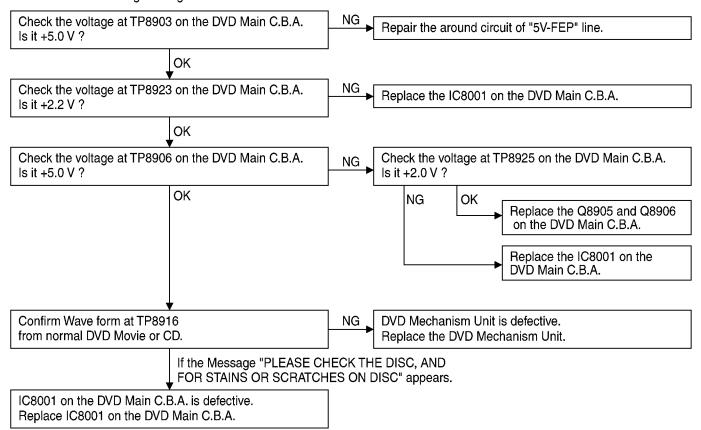


Traverse Operation Problem

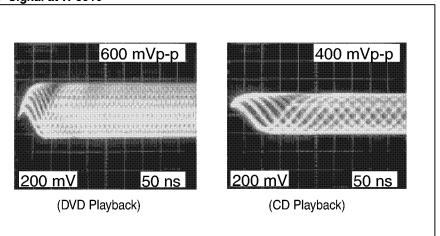


Pickup Operation Problem

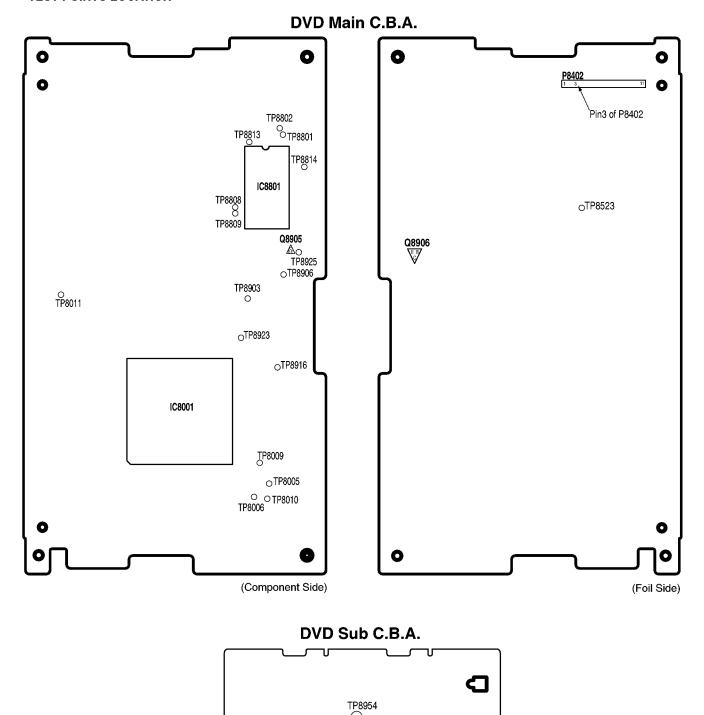
Note: Check the voltage during 10 to 20 seconds as soon as disc has been inserted.



RF Signal at TP8916



TEST POINTS LOCATION



Test Point Information

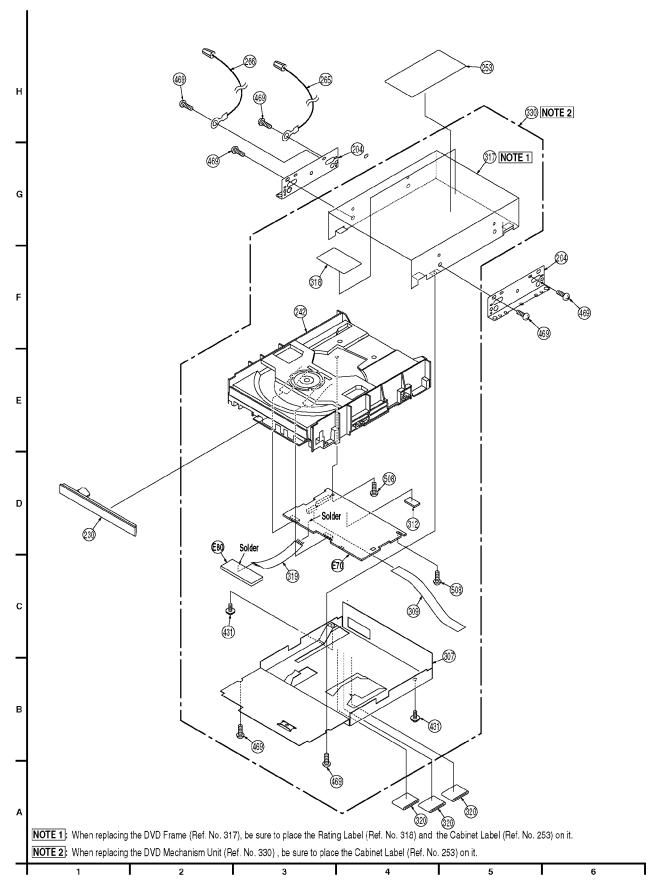
- Test Point with a Test Pin.
- ① Test Point with a jumper wire across a hole in the P.C.B.
- O Test Point with no Test Pin.

PV-20DF64 / PV-27DF64 / PV-27DF4 / PV-20DF64-K / PV-27DF64-K

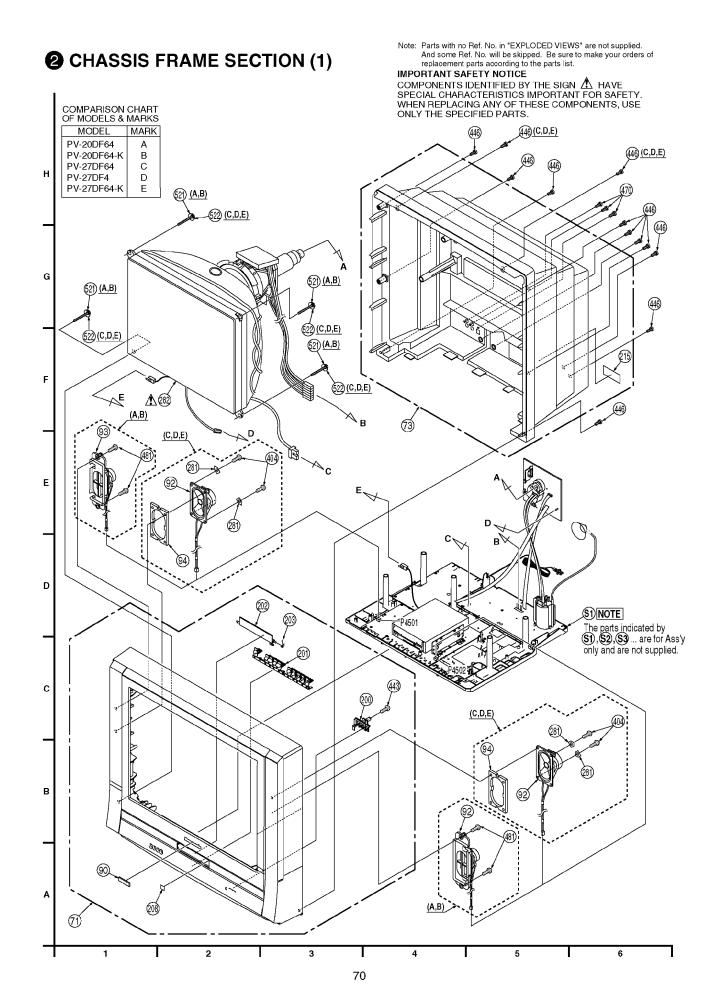
11 EXPLODED VIEWS

11.1. DVD SECTION

1 DVD SECTION

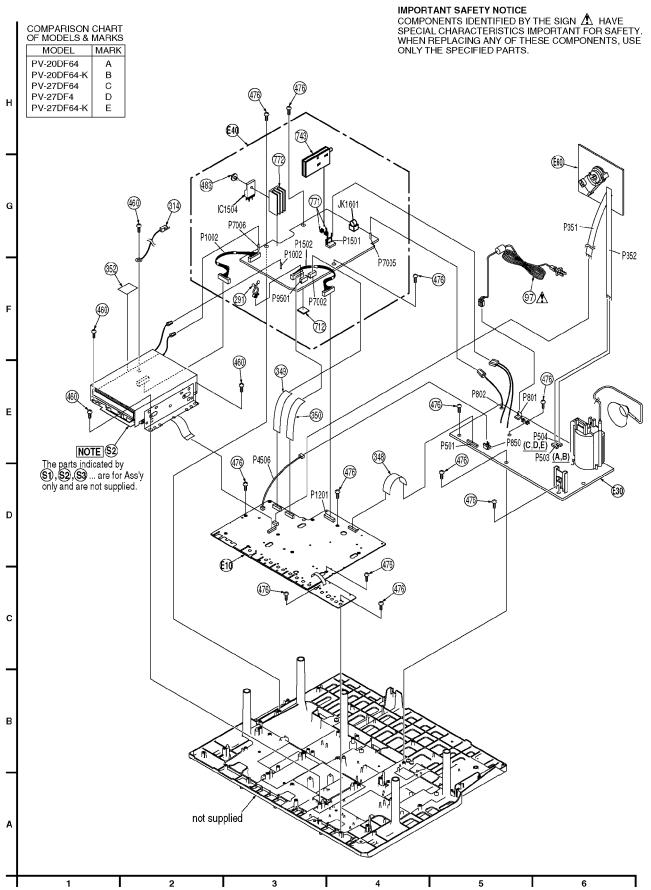


11.2. CHASSIS FRAME SECTION (1)



11.3. CHASSIS FRAME SECTION (2)

3 CHASSIS FRAME SECTION (2)



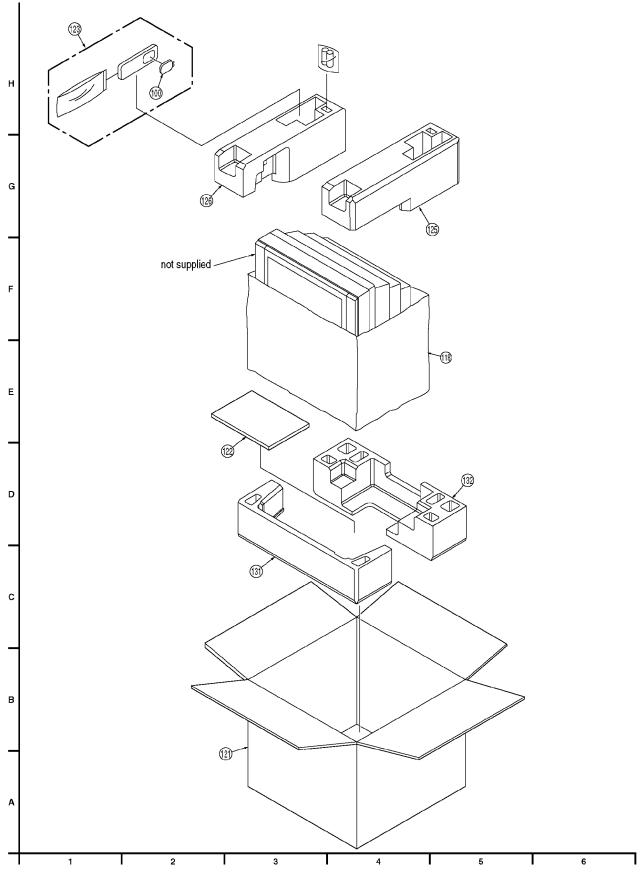
11.4. CHASSIS FRAME SECTION (3)

IMPORTANT SAFETY NOTICE COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS. **4** CHASSIS FRAME SECTION (3) COMPARISON CHART OF MODELS & MARKS MARK MODEL PV-20DF64 B C D PV-20DF64-K PV-27DF64 PV-27DF4 Н PV-27DF64-K **(60)** (C,D,E) G Ε ,T551 🥂 D **1** Q551 IC4501 С

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11.5. PACKING PARTS AND ACCESSORIES SECTION

5 PACKING PARTS AND ACCESSORIES SECTION



12 REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS, READ THE FOLLOWING:

12.1. REPLACEMENT NOTES

12.1.1. General Notes

1. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

2. IMPORTANT SAFETY NOTICE

Components identified by the sign \triangle have special characteristics important for safety. When replacing any of these components, use only the specified parts.

3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

- 4. Parts with no Ref. No. in "EXPLODED VIEWS" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.
- 5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
- 6. Definition of Parts supplier:
 - a. Parts with mark "MKE" in the Remarks column are supplied from MKE.
 - b. Parts with mark "MKI" in the Remarks column are supplied from MKI.
 - c. Parts with mark "SPC" in the Remarks column are supplied from Spare Parts Center of Panasonic AVC Company
 - d. Parts without mark in the Remarks column are supplied from MKA.
- 7. Item numbers with capital letter E (Example: E10, E20,) in the Ref. No. column are shown in the exploded views.
- 8. Parts whose Ref. Nos. are the same are interchangeable as replacement parts. Any of these parts may be ordered and used as a replacement part.

12.1.2. Mechanical Replacement Notes

- Section No. of parts shown in Exploded Views are indicated in the Remarks column.
- 2. The Infrared Remote Control Unit (Ref. No. 123) replacement part is available as a complete assembly unit only. Do not try to disassemble the Infrared Remote Control Unit. However, the battery cover is available separately as a replacement part.
- 3. When replacing the DVD Frame (Ref. No. 317), be sure to place the Rating Label (Ref. No. 318) on it.
- 4. When replacing the DVD Mechanism Unit (Ref. No. 242), be sure to place the Cabinet Label (Ref. No. 253) on it.

12.1.3. Electrical Replacement Notes

1. Unless otherwise specified;

All resistors are in Ω , K = 1,000 Ω , M = 1,000 k Ω .

2. Abbreviation

RTL: Retention Time Limited

This indicates that the retention time is

limited for this item. After the discontinuation of this item in production, it will no longer be

available.

NR: Non Repairable Board Ass'y

MGF CHIP: Metal Glaze Film Chip

C CHIP: Ceramic Chip

COMPLX CMP: Complex Component
W FLMPRF: Wirewound Flameproof
C.B.A.: Circuit Board Assembly
P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices

3. SERVICE OF CHIP PARTS

When servicing chip parts, please use a soldering iron of less than 30 W.

- 4. When replacing 0 Ω resistor, a wire can be substituted for it.
- 5. Since the UHF/VHF TUNER/TV DEMODULATOR UNIT (Ref. No. 743) has already been pre-adjusted at the factory, do not try to adjust the UHF/VHF TUNER/TV DEMODULATOR UNIT. The UHF/VHF TUNER/TV DEMODULATOR UNIT replacement part is available as a complete assembly unit only.
- 6. EEP ROM IC (IC6004) replacement note:

There are 2 types of EEPROM IC (IC6004) used on the Main C.B.A. (DIP TYPE and SOP TYPE). However, these are same reliability, please refer to "MAIN C.B.A." in CIRCUIT BOARD LAYOUT.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	Ш

12.2. MECHANICAL REPLACEMENT PARTS LIST

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	E
F V-Z / DF04-K	

Definition of Parts supplier:

- 1. Parts with mark "MKE" in the Remarks column are supplied from MKE.
- 2. Parts with mark "MKI" in the Remarks column are supplied from MKI.
- 3. Parts with mark "SPC" in the Remarks column are supplied from Spare Parts Center of Panasonic AVC Company.
- 4. Parts without mark in the Remarks column are supplied from MKA.

MECHANICAL REPLACEMENT PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
71	LSYY0083	FRONT CABINET ASS'Y (A,B)	2
71	LSYY0062	FRONT CABINET ASS'Y (C,E)	2
71	LSYY0150	FRONT CABINET ASS'Y (D)	2
73	LSYY0068	REAR COVER UNIT (A)	2
73	LSYY0126	REAR COVER UNIT (B)	2
73	LSYY0055	REAR COVER UNIT (C,D)	2
73	LSYY0129	REAR COVER UNIT (E)	2
90	TBMA003	BADGE, ABS RESIN (A,B)	2
90	TBMA008	BADGE, ABS RESIN (C, D, E)	2
92	LXQAS8270RU	SPEAKER UNIT (A,B)	2
92	LXQAS8275F	SPEAKER UNIT (C,D,E)	2
93	LXQAS8270LU	SPEAKER UNIT (A,B)	2
94	LSMG0145	SPEAKER CUSHION (C,D,E)	2
97	LSJA03492017	AC CORD W/PLUG,120V	3 ⚠
100	EUR77EC2406A	BATTERY COVER	5
118	LSPF0054	BAG, POLYYETHYLENE	5
121	LSPG1652	PACKING CASE, PAPER (A,B)	5
121	LSPG1659	PACKING CASE, PAPER (C,E)	5
121	LSPG1751	PACKING CASE, PAPER (D)	5
122	LSQF0777	FAN BAG (A,C)	5
122	LSQF0810	FAN BAG (B,E)	5
122	LSQF0836	FAN BAG (D)	5
123	EUR7724010	<pre>INFRARED REMOTE CONTROL UNIT (A,B,C,E)</pre>	5
123	EUR7724040	INFRARED REMOTE CONTROL UNIT	5
125	LSPN0425	TOP CUSHION RIGHT, STYROFOAM (A,B)	5
125	LSPN0434	TOP CUSHION RIGHT, STYROFOAM (C,D,E)	5
126	LSPN0424	TOP CUSHION LEFT, STYROFOAM (A,B)	5
126	LSPN0433	TOP CUSHION LEFT, STYROFOAM (C,D,E)	5
131	LSPN0426	BOTTOM CUSHION FRONT, STYROFOAM (A,B)	5
131	LSPN0435	BOTTOM CUSHION FRONT, STYROFOAM (C,D,E)	5
132	LSPN0427	BOTTOM CUSHION REAR, STYROFOAM (A,B)	5

Ref.	Part No.	Part Name & Description	Remarks
No. 132	LSPN0436	BOTTOM CUSHION REAR, STYROFOAM	5
		(C,D,E)	
153	TMM7443-1	CLAMPER (A,B)	4
200	LSGL0377	PANEL LIGHT (A,B)	2
200	LSGL0412	PANEL LIGHT (C,D,E)	2
201	LSGU0613	OPERATION BUTTON (A,B)	2
201	LSGU0612	OPERATION BUTTON (C,E)	2
201	LSGU0625	OPERATION BUTTON (D) DVD DISK DOOR-LID UNIT (A,B	2
202	LSYY0088 LSKF0550	DVD DISK DOOR-LID UNIT (C,E	
)	
202	LSKF0564	DVD DISK DOOR-LID UNIT (D)	2
203	LSMB0170	DVD CASSETTE DOOR SPRING	2
204	LSMA0731 TMK77708	DVD MOUNT ANGLE CUSHION, RUBBER (A,B)	2
215	LSQL1623	DOLBY & DTS CAUTION LABEL	2
230	LSGP0381	TRAY COVER	1
242	LSXK0165	DVD MECHANISM UNIT	1 MKI
253	LQF62003A	CABINET LABEL (A,B)	1
253	LSQL0999	CABINET LABEL (C,D,E)	1
265	VEKS9427	CONNECTOR CABLE W/PLUG	1
266	VEKS5904	CONNECTOR CABLE W/PLUG	1
273	TMM7464-1	CLAMPER (C,D,E)	4
281	LSMF0330	SPEAKER SPACER (C,D,E)	2
282	LSEQ0726	COLOR PICTURE TUBE UNIT (A,B)	2 🗥
282	LSEQ0724	COLOR PICTURE TUBE UNIT (C,D,E)	2 🗥
291	LML69002A	CLAMPER	3
307	LSMA0717	SHIELD CASE A	1 MKI
309	LSJW0068	FLEXIBLE FLAT CABLE W/OUT PLUG	1 MKI
312	LMMY0030	HEAT SHEET, SI	1 MKI
314	VEKS5872	CONNECTOR CABLE W/PLUG	3
317	LMMK0201	FRAME	1 MKI
318	LSQL1590	RATING LABEL	1 MKI
319	LSJW0029	FLEXIBLE FLAT CABLE W/OUT PLUG	1 MKI
320	J0KD00000084	FERRITE CORE	1
330	LSXK0140	DVD BLOCK UNIT	1 MKI
348	LSJW0065	FLEXIBLE FLAT CABLE W/OUT PLUG	
349	LSJW0066	FLEXIBLE FLAT CABLE W/OUT PLUG	
350	LSJW0067	FLEXIBLE FLAT CABLE W/OUT PLUG	
352	TMK77519	SPACER	3
404	VHDS0472	SCREW, STEEL (C, D, E)	2
431	XTV26+6F	TAPPING SCREW, STEEL	1 MKI
443	XTV4+12A	TAPPING SCREW, STEEL	2
446 460	XTV4+16A XTN4+12A	TAPPING SCREW, STEEL TAPPING SCREW, STEEL	3
469	XSN3+6	SCREW, STEEL	1
470	XTV3+10G	TAPPING SCREW, STEEL	2,4
476	XTV3+12G	TAPPING SCREW, STEEL	3
481	XTW4+Z15D	TAPPING SCREW, STEEL (A,B)	2
483	XYN3+F10s	SCREW W/WASHER, STEEL	3,4
487	XYN3+J8	SCREW W/WASHER, STEEL	4
508	XTV26+6J	TAPPING SCREW, STEEL	1
521	LHT60002Y	SCREW W/WASHER, STEEL (A,B)	2
522	LHT60001Y	SCREW W/WASHER, STEEL (C,D,E	2
701 711	LSSC0676	HEAT SINK INFRARED RECEIVER UNIT	4
712	PNA4611M00HC VMTS0035	CUSHION, RUBBER	3
713	VMAS1912	P.C.B. SUPPORT ANGLE (C,D,E	-
728	LUS63008A	HEAT SINK (A,B)	4
	LSSC0254	HEAT SINK (C,D,E)	4
728			3
728 743	J3AAABB00001	TUNER, UHF/VHF NR	J
	J3AAABB00001 LML69001A	TUNER, UHF/VHF NR ANODE LEAD CLAMPER	4
743	+		
743 751	LML69001A	ANODE LEAD CLAMPER	4

Ref. No.	Part No.	Part Name & Description	Remarks
794	TUC15776	HEAT SINK PLATE (C,D,E)	4
797	LSSC0529	HEAT SINK (A,B)	4
797	LSSC0562	HEAT SINK (C,D,E)	4
E10	LSEP2150B	MAIN C.B.A. (A,B)	3,4 RTL
E10	LSEP2150A	MAIN C.B.A. (C,D,E)	3,4 RTL
E11	LSEP2146A	OPERATION C.B.A.	4 RTL
E30	LSEP2151F	TV MAIN C.B.A. (A,B)	3,4 RTL
E30	LSEP2151E	TV MAIN C.B.A. (C,D,E)	3,4 RTL
E31	LSEP2075A	DEFLECTION C.B.A. (C,D,E)	4 RTL
E40	LSEP2155C	POWER SUPPLY C.B.A.	3 RTL
E60	LRP63022W	CRT C.B.A. (A,B)	3,4 RTL
E60	LSEP2079B	CRT C.B.A. (C,D,E)	3,4 RTL
E70	LSEP2145A	DVD MAIN C.B.A.	1 RTL MKI
E80	LSEP2014A	DVD SUB C.B.A.	1 RTL MKI

SERVICE	FIXTURES	AND TOOLS
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Ref. No.	Part No.	Part Name & Description	Remarks
	DVDT-S01	DVD TEST DISC	SPC
	DVDT-S15	DVD TEST DISC	SPC
	LSUA0048	EXTENSION CABLE 16P	MKE
	LSUA0049	EXTENSION CABLE 19P	MKE

12.3. ELECTRICAL REPLACEMENT **PARTS LIST**

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	Е

Definition of Parts supplier:

- 1. Parts with mark "MKI" in the Remarks column are supplied from MKI.
- 2. Parts without mark in the Remarks column are supplied from MKA.

PRINTED CIRCUIT BOARD ASSEMBLY

Ref.	Part No.	Part Name & Description	Remarks
E10	LSEP2150B	MAIN C.B.A. (A,B)	E.S.D. RTL
E10	LSEP2150A	MAIN C.B.A. (C,D,E)	E.S.D. RTL
E11	LSEP2146A	OPERATION C.B.A.	RTL
E30	LSEP2151F	TV MAIN C.B.A. (A,B)	RTL
E30	LSEP2151E	TV MAIN C.B.A. (C,D,E)	RTL
E31	LSEP2075A	DEFLECTION C.B.A. (C,D,E)	RTL
E40	LSEP2155C	POWER SUPPLY C.B.A.	RTL
E60	LRP63022W	CRT C.B.A. (A,B)	RTL
E60	LSEP2079B	CRT C.B.A. (C,D,E)	RTL
E70	LSEP2145A	DVD MAIN C.B.A.	E.S.D. RTL MKI
E80	LSEP2014A	DVD SUB C.B.A.	RTL MKI

12.3.1. MAIN C.B.A.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	Е

INTEGRATED CIRCUITS

	INTEGRATED CIRCUITS			
Ref.	Part No.	Part Name & Description	Remarks	
IC4301	C0JBAR000344	IC, CMOS STANDARD LOGIC	E.S.D.	
IC4301	C0JBAR000002	IC, CMOS STANDARD LOGIC	E.S.D.	
IC4351	C0ABBB000256	IC, LINEAR		
IC4501	C1BA00000367	IC, LIENAR		
IC4601	C1BB00000815	IC, LINEAR		
IC4701	C0ABBB000256	IC, LINEAR		
IC4701	C0ABBB000017	IC, LINEAR		
IC4701	C1BB00000177	IC, LINEAR		
IC5301	AN15167A-VT	IC, LINEAR		
IC5351	C1AB00001682	IC, LINEAR		
IC5351	C1AB00001519	IC, LINEAR		
IC5651	C1AB00001288	IC, LOGIC	E.S.D.	
IC6001	C2CBHF000330	IC, 16BIT MICROCONTROLLER	E.S.D.	
IC6004	LSSK0038	IC, 2K EEP ROM (A,B)	E.S.D.	
IC6004	LSSK0037	IC, 2K EEP ROM (C,D,E)	E.S.D.	
IC6005	C0EBJ0000080	IC, CMOS STANDARD LOGIC	E.S.D.	
IC6005	C0EBJ0000099	IC, CMOS STADNARD LOGIC	E.S.D.	
IC6005	RN5VS47CA-TR	IC, CMOS STANDARD LOGIC	E.S.D.	

Ref.	Part No.	TRANSISTORS Part Name & Description	Remarks
No.	1		
Q4301	UNR211L00L	TRANSISTOR SI PNP CHIP	
Q4302	UNR221L00L	TRANSISTOR SI PNP CHIP	
Q4303	UNR221200L	TRANSISTOR SI NPN CHIP	
Q4303	B1GBCFLL0002	TRANSISTOR SI NPN CHIP	
Q4304	UNR221200L	TRANSISTOR SI NPN CHIP	
Q4304	B1GBCFLL0002	TRANSISTOR SI NPN CHIP	
Q4351	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q4351	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q4352	2SD132800L	TRANSISTOR SI NPN CHIP	
Q4352	B1ABEC000006	TRANSISTOR SI NPN CHIP	
Q4353	2SD132800L	TRANSISTOR SI NPN CHIP	
Q4353	B1ABEC000006	TRANSISTOR SI NPN CHIP	
Q4354	UNR511500L	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q4354	B1GDCFJJ0025	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q4355	UNR511500L	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q4355	B1GDCFJJ0025	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q4356	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q4356	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q4701	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q4701	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q5301	2SB1218AHL	TRANSISTOR SI PNP CHIP	
Q5302	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5302	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5303	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5303	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5353	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5353	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5354	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5354	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5355	UNR221100L	TRANSISTOR SI NPN CHIP	
Q5355	DTC114EK-TX	TRANSISTOR SI NPN CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q5381	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5381	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5611	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q5611	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q5612	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5612	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5613	UNR221100L	TRANSISTOR SI NPN CHIP	
Q5613	DTC114EK-TX	TRANSISTOR SI NPN CHIP	
Q5614	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5614	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5651	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q5651	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q5652	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5652	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5653	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q5653	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q5655	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5655	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5656	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5656	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5657	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5657	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5658	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q5658	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q5659	UNR221200L	TRANSISTOR SI NPN CHIP	
Q5659	B1GBCFLL0002	TRANSISTOR SI NPN CHIP	
Q5901	2SD225900A	TRANSISTOR SI NPN CHIP	
Q6003	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6003	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6005	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q6005	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q6006	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6006	B1ABCF000011	TRANSISTOR SI NPN CHIP	

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Ref. No.	Part No.	Part Name & Description	Remarks
D4353	MA2C165001VT	DIODE SI	
D4353	B0AACK000004	DIODE SI	
D4353	1SS119	DIODE SI	
D4354	MA2C165001VT	DIODE SI	
D4354	B0AACK000004	DIODE SI	
D4354	155119	DIODE SI	
D4534 D4587	MAZ42400MF	DIODE SENER 24V	
D4588	MAZ42400MF	DIODE ZENER 24V	
D4591	MAZ42400MF	DIODE ZENER 24V	
D4591 D4592	MAZ42400MF	DIODE ZENER 24V	
D4592	MA2C165001VT	DIODE SI	
D4593	B0AACK000004	DIODE SI	
D4593	155119	DIODE SI	
D4594	MA2C165001VT	DIODE SI	
D4594	B0AACK000004	DIODE SI	
D4594	1SS119	DIODE SI	
D4594 D4601	B0AAML000001	DIODE SI	
D4601	BOEAKLOOOOOS	DIODE SI	
D4701	MA2C165001VT	DIODE SI	
D4701 D4701	B0AACK000004	DIODE SI	
D4701 D4701	1SS119		
D4701 D4702	MA2C165001VT	DIODE SI	
D4702 D4702	B0AACK000004	DIODE SI	
D4702 D4702	1SS119	DIODE SI	
D5304	MA2C165001VT	DIODE SI	
D5304	B0AACK000004	DIODE SI	
D5304	1SS119	DIODE SI	
D5307	MA2C165001VT	DIODE SI	
D5307	B0AACK000004	DIODE SI	
D5307	1SS119	DIODE SI	+
D5307	MA2C165001VT	DIODE SI	
D5308	B0AACK000004	DIODE SI	
D5308	155119	DIODE SI	
D5308	MAZ40510MF	DIODE ZENER 5.1V	
D5309	HZS5C2TD	DIODE ZENER 5.1V	
D5309	HZS5C2TD	DIODE ZENER 5.1V	
D5310	MAZ40510MF	DIODE ZENER 5.1V	

Ref.	Part No.	Part Name & Description	Remarks
No.			
D5310	HZS5C2TD	DIODE ZENER 5.1V	
D5310	HZS5C3TD	DIODE ZENER 5.1V	
D5353	MA2C165001VT	DIODE SI	
D5353	B0AACK000004	DIODE SI	
D5353	188119	DIODE SI	
D5354	MA2C165001VT	DIODE SI	
D5354	B0AACK000004	DIODE SI	
D5354	155119	DIODE SI	
D5501	MAZ40620L1KT	DIODE ZENER 6.2V	\triangle
D5611	MA2C165001VT	DIODE SI	
D5611	B0AACK000004	DIODE SI	
D5611	188119	DIODE SI	
D5612	MA2C165001VT	DIODE SI	
D5612	B0AACK000004	DIODE SI	
D5612	155119	DIODE SI	
D6002	MA2C165001VT	DIODE SI	
D6002	B0AACK000004	DIODE SI	
D6002	155119	DIODE SI	
D6003	MA2C165001VT	DIODE SI	
D6003	B0AACK000004	DIODE SI	
D6003	155119	DIODE SI	
D6004	MA2C165001VT	DIODE SI	
D6004	B0AACK000004	DIODE SI	
D6004	155119	DIODE SI	
D6005	MA2C165001VT	DIODE SI	
D6005	B0AACK000004	DIODE SI	
D6005	188119	DIODE SI	
D6006	MA2C165001VT	DIODE SI	
D6006	B0AACK000004	DIODE SI	
D6006	188119	DIODE SI	
D6009	MA2C165001VT	DIODE SI	
D6009	B0AACK000004	DIODE SI	
D6009	155119	DIODE SI	
D6010	MA2C165001VT	DIODE SI	
D6010	B0AACK000004	DIODE SI	
D6010	188119	DIODE SI	

RESISTORS

Ref.	Part No.	RESISTORS Part Name & Description	Remarks
R4301	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4302	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4303	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4304	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4305	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4306	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4307	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4308	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4309	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4310	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4351	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4352	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R4353	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4354	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4355	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4356	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R4357	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R4358	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R4359	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R4360	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4365	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4366	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R4367	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R4368	ERJ6GEYJ821V	MGF CHIP 1/10W 820	
R4371	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4372	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R4373	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R4374	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R4502	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4503	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4504	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R4505	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4506	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4591	ERDS2TJ681	CARBON 1/4W 680	

Ref. No.	Part No.	Part Name & Description	Remarks
R4592	ERDS2TJ681	CARBON 1/4W 680	
R4593	ERDS2TJ681	CARBON 1/4W 680	
R4594	ERDS2TJ681	CARBON 1/4W 680	
R4601	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4602	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4603	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K (A,B)	
R4603	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K (C,D,E)	
R4604	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K (A,B)	
R4604	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K (C,D,E)	
R4605	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R4606	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R4607	ERJ6GEYJ562V		
		MGF CHIP 1/10W 3.6K	
R4608	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R4609	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
R4610	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R4611	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R4701	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4702	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4703	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R4704	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R4705	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R4706	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R4707	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R5301	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5302	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R5303	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R5304	ERJ6GEYJ393V	MGF CHIP 1/10W 4.7K	
R5304	ERJ6GEYJ224V	MGF CHIP 1/10W 39K	
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R5306	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R5307	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R5308	ERJ6GEYJ393V	MGF CHIP 1/10W 39K	
R5309	ERJ6GEYJ184V	MGF CHIP 1/10W 180K	
R5310	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5311	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5312	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5313	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R5314	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5315	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5316	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5317	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5318	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R5320	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R5321	ERJ6GEYJ750V	MGF CHIP 1/10W 75	
R5323	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5351	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
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R5352	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5353		MGF CHIP 1/10W 100	
R5359	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5361	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5362	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5363	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R5381	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R5382	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R5383	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R5401	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5402	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5403	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5405	ERJ6GEYJ822V	MGF CHIP 1/10W 8.2K	
R5406	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5501	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R5502	ERJ6GEYJ394V	MGF CHIP 1/10W 390K	
R5503	ERDS2TJ471	CARBON 1/4W 470	
R5504	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5505	ERJ6ENF3241V	MGF CHIP 1/10W 3.24K	Δ
R5506	ERJ6GEYJ223V	MGF CHIP 1/10W 3.24R MGF CHIP 1/10W 22K	'
R5508	ERJ6GEYJ561V	MGF CHIP 1/10W 160	
R5509	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5510	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5511	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5512	ERJ6GEYJ151V	MGF CHIP 1/10W 150	
R5513	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5515	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	

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Ref. No.	Part No.	Part Name & Description	Remarks
R5615	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5616	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5617	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R5618	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R5619	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R5620	ERJ6GEYJ563V	MGF CHIP 1/10W 56K	
R5621	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
R5622	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R5651	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R5652	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5653	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R5654	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K	
R5655	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R5656 R5657	ERJ6GEYJ153V	MGF CHIP 1/10W 15K MGF CHIP 1/10W 33K	+
R5658	ERJ6GEYJ333V ERJ6GEYJ152V	MGF CHIP 1/10W 33K MGF CHIP 1/10W 1.5K	+
R5659	ERJ6GEYJ222V	MGF CHIP 1/10W 1.5K	
R5660	ERJ6GEYJ821V	MGF CHIP 1/10W 820	
R5661	ERJ6GEYJ391V	MGF CHIP 1/10W 390	
R5662	ERJ6GEYJ391V	MGF CHIP 1/10W 390	
R5663	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R5665	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5666	ERJ6GEYJ561V	MGF CHIP 1/10W 560	
R5668	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5670	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5674	ERJ6GEYJ333V	MGF CHIP 1/10W 33K	
R5675	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R5676	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R5677	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R5678	ERJ6GEYJ392V	MGF CHIP 1/10W 3.9K	
R5679	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5902	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R5904	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R5932	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5933	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R5941 R6006	ERJ6GEYJ101V ERJ6GEYJ102V	MGF CHIP 1/10W 100 MGF CHIP 1/10W 1K	
R6012	ERJ6GEYJ101V	MGF CHIP 1/10W 100	+
R6014	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6015	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6016	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6017	ERJ6GEYJ471V	MGF CHIP 1/10W 470	
R6022	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6023	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6025	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6026	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6027	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6028	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	1
R6029	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6034	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	1
R6035	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	1
R6036	ERJ6GEYJ223V	MGF CHIP 1/10W 1E	
R6039	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	1
R6041 R6042	ERJ6GEYJ102V	MGF CHIP 1/10W 1K MGF CHIP 1/10W 1K	1
R6042	ERJ6GEYJ102V ERJ6GEYJ223V	MGF CHIP 1/10W IK MGF CHIP 1/10W 22K	1
R6043	ERJ6GEYJ102V	MGF CHIP 1/10W 22K	1
R6047	ERJ6GEYJ102V	MGF CHIP 1/10W IK	1
R6051	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6054	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	1
R6056	BRJ6GEYJ471V	MGF CHIP 1/10W 470	
R6058	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6059	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6060	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R6061	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6062	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R6063	ERJ6GEYJ331V	MGF CHIP 1/10W 330	1
R6064	ERJ6GEYJ331V	MGF CHIP 1/10W 330	1
R6065	ERJ6GEYJ561V	MGF CHIP 1/10W 560	1
R6066	ERJ6GEYJ561V	MGF CHIP 1/10W 560	1
R6067	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	1
R6068	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6069	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6071	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
	ERJ6GEY0R00V	MGF CHIP 1/10W 10K	
	ERJ6GEYJ223V	MGF CHIP 1/10W 0	
	ERJ6GEYJ183V	MGF CHIP 1/10W 18K	
	ERJ6GEYJ391V	MGF CHIP 1/10W 390	
	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
	ERDS2TJ560T	CARBON 1/4W 56	
	ERJ6GEYJ475V	MGF CHIP 1/10W 4.7M	
	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K	
	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R6129	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6130	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6301	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6302	ERJ6GEYG203V	MGF CHIP 1/10W 20K	
R6305	ERJ6GEYG333V	MGF CHIP 1/10W 33K	
R6306	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6307	ERJ6GEYG332V	MGF CHIP 1/10W 3.3K	
R6308	ERJ6GEYG562V	MGF CHIP 1/10W 5.6K	
R6309	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6311	ERJ6GEYG222V	MGF CHIP 1/10W 2.2K	
R6312	ERJ6GEYG332V	MGF CHIP 1/10W 3.3K	
R6313	ERJ6GEYG562V	MGF CHIP 1/10W 5.6K	
R6314	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6315	ERJ6GEYG333V	MGF CHIP 1/10W 33K	
R6316	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6317	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6318	ERJ6GEYG113V	MGF CHIP 1/10W 11K	
R6401	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
R6407	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R6511	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6512	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6513	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K	
R6514	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6515	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R6516	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
			1
R6518	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	

CAPACITORS

Ref. No.	Part No.	Part Name & Description	Remarks
C4301	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C4302	ECEA1CKA101I	ELECTROLYTIC 16V 100UF	
C4303	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4304	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4351	ECEA1CKA101I	ELECTROLYTIC 16V 100UF	
C4352	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C4353	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4354	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C4355	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C4356	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C4357	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4358	ECEA1CKN100	ELECTROLYTIC 16V 10UF	
C4359	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4360	ECEA1CKN100	ELECTROLYTIC 16V 10UF	
C4371	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4372	ECEA1CKA100	ELECTROLYTIC 16V 10UF	

Ref.	Part No.	V-20DF64 / PV-27DF64 / PV-27DF4 / PV-20DF Part Name & Description	Remarks
No. C4501	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
C4502	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4503	ECJ2VB1H122K	C CHIP 50V 1200PF	
C4504	ECJ2VB1H122K	C CHIP 50V 1200PF	
C4505	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4506	ECEA1HKA4R7	ELECTROLYTIC 50V 4.7UF	
C4507	ECA1EM471B	ELECTROLYTIC 25V 470UF	
C4508	ECA1EM471B	ELECTROLYTIC 25V 470UF	
C4509	ECA1CM101I	ELECTROLYTIC 16V 100UF	
C4510	ECA1EM471B	ELECTROLYTIC 25V 470UF	
C4601	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C4602	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C4603	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C4604	ECJ2VB1H103K	C CHIP 50V 0.01UF	
C4605	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C4607	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C4608	ECEA1HKA4R7	ELECTROLYTIC 50V 4.7UF	
C4610	ECEA1HKA4R7	ELECTROLYTIC 50V 4.7UF	
C4612		ELECTROLYTIC 50V 4.7UF	
C4614	ECJ2VB1E823K	C CHIP 25V 0.082UF	
C4615	ECEA1CKA220 ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C4617	ECJ2VF1H103Z ECJ2YB1C334K	C CHIP 16V 0.33UF	
C4621	ECS21BICS34R ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4622	ECEATHRA010	ELECTROLYTIC 50V 1UF	
C4622	ECEATHKA010	ELECTROLYTIC 50V 1UF	
C4624	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4627	ECJ2VC1H560J	C CHIP 50V 56PF	
C4628	ECJ2VC1H560J	C CHIP 50V 56PF	
C4629	ECA1CM102B	ELECTROLYTIC 16V 1000UF	
C4701	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4702	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4703	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C4704	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4707	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C4708	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4709	ECJ2VC1H101J	C CHIP 50V 100PF	
C4710	ECJ2VC1H101J	C CHIP 50V 100PF	
C5301	ECEA1CKN100	ELECTROLYTIC 16V 10UF	
C5302	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C5303	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C5305	ECEA1HKAR47 ECEA1CKA100	ELECTROLYTIC 50V 0.47UF	
C5351	ECEA1CKA100	ELECTROLYTIC 16V 10UF ELECTROLYTIC 16V 10UF	
C5351	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5352	ECJ2VC1H220J	C CHIP 50V 22PF	
C5356	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5382	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C5384	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5401	VCUSTBC224KB	C CHIP 16V 0.22UF	
C5402	ECJ2VB1H222K	C CHIP 50V 2200PF	
C5403	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C5501	ECJ2VB1E183K	C CHIP 25V 0.018UF	
C5502	ECJ2VB1H681K	C CHIP 50V 680PF	
C5505	ECA1CM221	ELECTROLYTIC 16V 220UF	
C5506	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5507	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C5508	ECUV1H221JSN	C CHIP 50V 220PF	
C5510	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C5511	ECJ2VB1E333K	C CHIP 25V 0.033UF	
C5516	ECJ2VB1E333K	C CHIP 25V 0.033UF	
C5601	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5602	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C5603	ECJ2VC1H150J	C CHIP 50V 15PF	
C5604	ECEA1HKA010	C CHIR 25V 0 015UF	
C5605 C5617	ECJ2VB1E153K ECJ2VF1H103Z	C CHIP 25V 0.015UF	
C5618	ECJ2VF1H103Z ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5619	ECJ2VF1H103Z ECJ2VF1H103Z	C CHIP 50V 0.010F	
C5652	ECJ2VF1H1032 ECJ2VC1H100C	C CHIP 50V 0.010F	
C5653	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5654	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C5655	ECJ2VC1H270J	C CHIP 50V 27PF	
	•	•	

64 / PV-27D	DF64 / PV-27DF4 / PV	-20DF64-K / PV-27DF64-K	
Ref. No.	Part No.	Part Name & Description	Remarks
C5656	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C5657	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C5658	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5659	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5660	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5661	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C5662	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C5663	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5664	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5665	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5666	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C5667	ECJ2VC1H220J	C CHIP 50V 22PF	
C5668	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5669	ECJ2VC1H181J	C CHIP 50V 180PF	
C5670	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5671	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5672	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5672	ECJ2VF1H103Z ECJ2VC1H560J	C CHIP 50V 0.010F	
C5674	ECJ2VC1H390J	C CHIP 50V 39PF	
C5675	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C5676	ECEA1CKA220	ELECTROLYTIC 16V 22UF	
C5677	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C5678	ECEA1CKS220	ELECTROLYTIC 16V 22UF	
C5680	ECJ2VC1H270J	C CHIP 50V 27PF	
C5681	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5902	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5903	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C5904	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C5905	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C5906	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5907	ECJ2VC1H560J	C CHIP 50V 56PF	
C5908	ECJ2VC1H560J	C CHIP 50V 56PF	
C5932	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C5934	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C6001	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C6002	ECJ2VC1H220J	C CHIP 50V 22PF	
C6003	ECJ2VC1H180J	C CHIP 50V 18PF	
C6005	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C6006	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C6007	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6008	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C6010	ECJ2VF1E104Z	C CHIP 25V 0.1UF	
C6016	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C6026	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6027	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C6030	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6032	ECJ2VC1H101J	C CHIP 50V 100PF	
C6401	ECJ2VF1H104Z	C CHIP 50V 0.1UF	
C6402	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6403	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6404	ECJ2VB1E333K	C CHIP 25V 0.033UF	
C6405	ECJ2VB1H102K	C CHIP 50V 1000PF	
C6406	ECJ2VC1H561J	C CHIP 50V 560PF	
~~~~	ECJ2VB1C104K	C CHIP 30V 360PF	
C6407		C CALLE TO A O TOE	
C6407			
C6407 C6408 C6409	ECJ2VC1H820J ECJ2VC1H101J	C CHIP 50V 82PF C CHIP 50V 100PF	

#### **FILTERS**

Ref. No.	Part No.	Part Name & Description	Remarks
FL5651	F1Y2A1030005	L/C COMPLEX COMPONENT	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L4351	ELESN101KA	COIL 100UH	
L4601	ELESN101KA	COIL 100UH	
L4701	ELESN101KA	COIL 100UH	
L5301	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
L5302	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
L5303	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
L5652	ELESN150KA	COIL 15UH	
L5653	LSLQF06R101K	COIL 100UH	
L5654	ELESN4R7KA	COIL 4.7UH	

Ref. No.	Part No.	Part Name & Description	Remarks
L5655	ELESN101KA	COIL 100UH	
L5656	ELESN101KA	COIL 100UH	
L5657	ELESN101KA	COIL 100UH	
L5658	ELESN101KA	COIL 100UH	
L5660	ELESN101KA	COIL 100UH	
L5901	ELESN101KA	COIL 100UH	
L6401	ELEXT101KE04	COIL 100UH	
L6402	G0C4R7JA0019	FIXED INDUCTOR	
L6403	J0JBC0000022	CHIP BEAD INDUCTOR	
L6404	J0JBC0000022	CHIP BEAD INDUCTOR	
L6405	J0JBC0000022	CHIP BEAD INDUCTOR	
L6406	J0JBC0000022	CHIP BEAD INDUCTOR	

CRYSTAL OSCILLATOR

Ref.	Part No.	Part Name & Description	Remarks
No.			
X5501	H2A503300012	CRYSTAL OSCILLATOR	
X5601	H0B357400003	CRYSTAL OSCILLATOR	
X6001	H0D120500017	CRYSTAL OSCILLATOR	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P1201	K1KA12A00176	CONNECTOR 12P	
P4003	K1MN13A00049	CONNECTOR 13P	
P4004	K1MN13A00049	CONNECTOR 13P	
P4501	K1KA02A00229	CONNECTOR 2P	
P4502	K1KA02A00229	CONNECTOR 2P	
P4506	VEKS5898	CONNECTOR CABLE W/PLUG, 18V DC	
P4801	K1MN16A00071	CONNECTOR 16P	
P5302	K1MP04A00006	CONNECTOR 4P	
P5401	K1MN19A00037	CONNECTOR 19P	
P6001	K1KA05A00268	CONNECTOR 5P	

SWITCHES

		OWITCHES	
Ref. No.	Part No.	Part Name & Description	Remarks
SW6301	EVQ21405R	SWITCH PUSH	
SW6302	EVQ21405R	SWITCH PUSH	
SW6305	EVQ21405R	SWITCH PUSH	
SW6307	EVQ21405R	SWITCH PUSH	
SW6308	EVQ21405R	SWITCH PUSH	
SW6315	EVQ21405R	SWITCH PUSH	
SW6316	EVQ21405R	SWITCH PUSH	
SW6317	EVQ21405R	SWITCH PUSH	
SW6318	EVQ21405R	SWITCH PUSH	

**JACKS** 

Ref. No.	Part No.	Part Name & Description	Remarks
JK4591	K2HC103B0047	EARPHONE JACK SOCKET	
JK4701	LSJJ0168	FRONT AUDIO/VIDEO JACK SOCKET	

PRINTED CIRCUIT BOARD ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Remarks
B11	LSEP2146A	OPERATION C.B.A.	RTL

MISCELLANEOUS

Ref.	Part No.	Part Name & Description	Remarks
487	XYN3+J8	SCREW W/WASHER, STEEL	
701	LSSC0676	HEAT SINK	

# 12.3.2. OPERATION C.B.A.

DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D6302	B3AAA0000538	LIGHT EMITTING DIODE RED	
D6303	B3ABA0000400	LIGHT EMITTING DIODE GREEN	
D6304	B3ACA0000192	LIGHT EMITTING DIODE ORANGE	

CAPACITORS

Ref.	Part No.	Part Name & Description	Remarks
No.			
C6302	ECJ2VF1H104Z	C CHIP 50V 0.1UF	

PIN HEADERS			
Ref. No.	Part No.	Part Name & Description	Remarks
P6302	LSJWR8N040AA	CONNECTOR CABLE W/PLUG,5V DC	

SW	ITC⊦	ıΕς

Ref.	Part No.	Part Name & Description	Remarks		
No.					
SW6306	EVQ21405R	SWITCH PUSH			
SW6311	EVQ21405R	SWITCH PUSH			

#### **MISCELLANEOUS**

Ref. No.	Part No.	Part Name & Description	Remarks
711	PNA4611M00HC	INFRARED RECEIVER UNIT	

#### 12.3.3. TV MAIN C.B.A.

#### **COMPARISON CHART OF MODELS & MARKS**

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	Е

#### **INTEGRATED CIRCUITS**

Ref.	Part No.	Part Name & Description	Remarks
No.			
IC451	C1AA00000024	IC, LINEAR	
IC850	C5HABZZ00109	IC, LINEAR ( A,B )	$\triangle$
IC850	C5HABZZ00110	IC, LINEAR ( C,D,E )	Δ

#### **TRANSISTORS**

Ref.	Part No.	Pant Name & Description	Domonto.
No.	Part No.	Part Name & Description	Remarks
Q431	2SA1309AHA	TRANSISTOR SI PNP CHIP	
Q431	Blaccf000047	TRANSISTOR SI PNP CHIP	
Q501	Blaacn000013	TRANSISTOR SI NPN ( A,B )	
Q501	2SC3941H	TRANSISTOR SI NPN ( C,D,E )	
Q523	B1ACBM000001	TRANSISTOR SI PNP CHIP	
Q523	B1ACBN000001	TRANSISTOR SI PNP CHIP	
Q523	2SA17670QA	TRANSISTOR SI PNP CHIP	
Q523	2SB12210QA	TRANSISTOR SI PNP CHIP	
Q541	2SB0709AHL	TRANSISTOR SI PNP CHIP	
Q541	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q551	2SC5913000LK	TRANSISTOR SI NPN ( A,B )	Δ
Q551	B1BAES000001	TRANSISTOR SI NPN ( C,D,E )	$\triangle$
Q571	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q571	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q591	2SC3311AHA	TRANSISTOR SI PNP CHIP	
Q801	2SC3311ARA	TRANSISTOR SI NPN	
Q801	2SC3311ASA	TRANSISTOR SI NPN	

#### DIODES

Ref.	Part No.	Part Name & Description	Remarks
D401	B0AAML000001	DIODE SI	
D401	1SR139-400	DIODE SI	
D402	MA2C165001VT	DIODE SI	
D402	B0AACK000004	DIODE SI	
D402	155119	DIODE SI	
D503	B0HAGP000014	DIODE SI	
D503	В0НАЈР000024	DIODE SI	
D504	MAZ40470MF	DIODE ZENER 4.7V	
D504	B0BA4R600003	DIODE ZENER 4.7V	
D504	RD4.7ESAB2	DIODE ZENER 4.7V	
D505	MA2C165001VT	DIODE SI	
D505	B0AACK000004	DIODE SI	
D505	155119	DIODE SI	
D506	MAZ42700MF	DIODE ZENER 27V ( C,D,E )	
D541	MA2C165001VT	DIODE SI	

Ref. No.	Part No.	Part Name & Description	Remarks
D541	B0AACK000004	DIODE SI	
D541	155119	DIODE SI	
D553	B0HAGP000014	DIODE SI	
D553	В0НАЈР000024	DIODE SI	
D554	MA2C16700E	DIODE SI	
D554	B0AAEL000001	DIODE SI	
D555	MAZ40680MF	DIODE ZENER 6.8V	
D555	B0BA6R600008	DIODE ZENER 6.8V	
D555	RD6.8ESAB3	DIODE ZENER 6.8V	
D555	04AZ6.8ZTPA7	DIODE ZENER 6.8V	
D558	B0HAGP000014	DIODE SI	
D558	В0НАЈР000024	DIODE SI	
D571	RH3F014305	DIODE SI	
D571	B0HAMV000028	DIODE SI	
D572	RU3ANLFC1	DIODE SI ( C,D,E )	
D572	B0HAMR000060	DIODE SI ( C,D,E )	
D572	B0HAMR000063	DIODE SI ( C,D,E )	
D591	D4DDD3R00002	THERMISTOR	Δ
D591	D4DDD3R00003	THERMISTOR	Δ
D592	MA2C16700E	DIODE SI	
D592	B0AAEL000001	DIODE SI	
D801	ERZV10V361CS	SURGE ABSORBER	⚠
D801	D4EAA3610001	SURGE ABSORBER	⚠
D803	MA2C16700E	DIODE SI	
D803	B0AAEL000001	DIODE SI	
D804	B0AAKT000010	DIODE SI	Δ
D804	B0EAKT000027	DIODE SI	$\triangle$
D804	B0EAKT000030	DIODE SI	⚠
D805	B0AAKT000010	DIODE SI	⚠
D805	B0EAKT000027	DIODE SI	$\triangle$
D805	B0EAKT000030	DIODE SI	$\triangle$
D806	B0AAKT000010	DIODE SI	$\triangle$
D806	B0EAKT000027	DIODE SI	⚠
D806	B0EAKT000030	DIODE SI	$\triangle$
D807	B0AAKT000010	DIODE SI	⚠
D807	B0EAKT000027	DIODE SI	$\triangle$
D807	B0EAKT000030	DIODE SI	$\triangle$
D854	B0JAMD000012	DIODE SI	
D854	B0JAGE000001	DIODE SI	
D854	B0JAME000082	DIODE SI	
D856	B0HAGP000012	DIODE SI	
D857	B0HAJL000001	DIODE SI	
D857	B0HAGP000012	DIODE SI	
D858	B0HAJL000001	DIODE SI	

#### D865 B0HAML000013 DIODE SI D865 B0HAML000014 DIODE SI B0HANL000016 DIODE SI D865

D858 D859

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D861 D863

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D866 RGP15GL-5008 DIODE SI ( C,D,E ) RESISTORS Part No. Part Name & Description

B0HAMM000105 DIODE SI ( C,D,E )

B0HAML000013 DIODE SI ( C,D,E )

B0HAGP000012 DIODE SI

B0HAMR000063 DIODE SI

B0HAHP000014 DIODE SI B0HAJP000007 DIODE SI

B0HAML000013 DIODE SI

B0HAML000014 DIODE SI

B0HANL000016 DIODE SI

RGP15GL-5008 DIODE SI

RGP15GL-5008 DIODE SI

DIODE SI

DIODE SI

DIODE SI

DIODE SI

DIODE SI

DIODE SI

DIODE SI

DIODE ZENER 27V

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B0JANK000003

B0JAMK000016

B0EALR000005

B0HAMP000061

B0HAMP000069

B0HAMM000105

B0HAMM000105

B0HAML000014

B0HANL000016

MAZ2270

Ref. No.	Part No.	Part Name & Description	Remarks
R401	ERJ6GEYJ561V	MGF CHIP 1/10W 560 ( A,B )	

DIODE SI ( C,D,E )

DIODE SI ( C,D,E )

4 / PV-27DF64 / PV-27DF4 / PV-20DF64-K / PV-27DF64-K				
Ref. No.	Part No.	Part Name & Description	Remarks	
R401	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K ( C,D,E )		
R402	ERDS2TJ223	CARBON 1/4W 22K ( A,B )		
R402	ERDS2TJ183T	CARBON 1/4W 18K ( C,D,E )		
R405	ERG1SJ331P	METAL OXIDE 1W 330		
		MGF CHIP 1/10W 27K ( A,B )		
R409	ERJ6GEYJ273V			
R409	ERJ6GEYJ223V	MGF CHIP 1/10W 22K ( C,D,E )		
R410	ERDS2TJ392	CARBON 1/4W 3.9K ( A,B )		
R410	ERDS2TJ223	CARBON 1/4W 22K ( C,D,E )		
R411	ERJ6GEYJ823V	MGF CHIP 1/10W 82K ( A,B )		
R411	ERJ6GEYJ223V	MGF CHIP 1/10W 22K ( C,D,E )		
R413	ERJ6GEYJ273V	MGF CHIP 1/10W 27K		
R414	ERDS1FJ1R2P	CARBON 1/2W 1.2 ( A,B )	Δ	
R414	ERDS1FJ1R8P	CARBON 1/2W 1.8 ( C,D,E )	Δ	
R415	ERDS1FJ1R8P	CARBON 1/2W 1.8 ( C,D,E )	Δ	
			<u></u>	
R416	ERDS2TJ101	CARBON 1/4W 100 ( C,D,E )		
R422	ERDS2TJ331	CARBON 1/4W 330		
R427	ERDS1FJ1R5P	CARBON 1/2W 1.5	Δ	
R431	ERDS2TJ821	CARBON 1/4W 820		
R432	ERJ6GEYJ333V	MGF CHIP 1/10W 33K		
R433	ERJ6GEYJ183V	MGF CHIP 1/10W 18K ( A,B )		
R433	ERJ6GEYJ102V	MGF CHIP 1/10W 1K ( C,D,E )		
R434	ERDS2TJ472	CARBON 1/4W 4.7K		
R435	ERJ6GEYJ102V	MGF CHIP 1/10W 1K		
R436	ERJ6GEYJ104V	MGF CHIP 1/10W 100K		
R466	ERJ6GEYJ473V	MGF CHIP 1/10W 47K		
R468	ERJ6GEYJ102V	MGF CHIP 1/10W 1K		
R471	ERDS1FJ152P	CARBON 1/2W 1.5K	Δ	
R501	ERDS2TJ471	CARBON 1/4W 470	_	
		·		
R502	ERDS2TJ561	CARBON 1/4W 560	^	
R503	ER0S2THF8661	PRECISION METAL FILM 1/4W 8.66K		
R503	ER0S2TKF8661	PRECISION METAL FILM 1/4W 8.66K	Δ	
R503	VRESR4TF8661	PRECISION METAL FILM 1/4W 8.66K	Δ	
R508	ERDS1FJ1R0P	CARBON 1/2W 1	$\triangle$	
R509	ERJ6GEYJ101V	MGF CHIP 1/10W 100		
R511	ERG2SJ222H	METAL OXIDE 2W 2.2K ( A,B )		
R511	ERG2SJ272H	METAL OXIDE 2W 2.7K ( C,D,E )		
R512	ERDS2TJ122	CARBON 1/4W 1.2K ( A,B )		
R513	ERDS2TJ472	CARBON 1/4W 4.7K		
R515	ERDS2TJ122	CARBON 1/4W 1.2K ( C,D,E )		
R516	LAR05222J09	W FLMPRF 5W 2.2K ( A,B )		
R516	LAR05152J09	W FLMPRF 5W 1500 ( C,D,E )		
R519	ERDS2TJ123	CARBON 1/4W 12K		
R523	ERDS2TJ563T	CARBON 1/4W 56K ( C,D,E )		
	ERDS2TJ103			
R524		CARBON 1/4W 10K		
R525	ERDS2TJ124	CARBON 1/4W 120K	Δ.	
R526	ERX2SJR75H	METAL OXIDE 2W 0.75	<u> </u>	
R541	ERJ6GEYJ102V	MGF CHIP 1/10W 1K		
R542	ERJ6GEYJ101V	MGF CHIP 1/10W 100		
R543	ERJ6GEYJ274V	MGF CHIP 1/10W 270K		
R544	ERJ6GEYJ823V	MGF CHIP 1/10W 82K		
R545	ERJ6GEYJ223V	MGF CHIP 1/10W 22K		
R551	ERDS2TJ393	CARBON 1/4W 39K ( A,B )		
R552	ERDS2TJ822	CARBON 1/4W 8.2K		
R553	ERDS2TJ102	CARBON 1/4W 1K		
R554	ERG2SJ102H	METAL OXIDE 2W 1K		
R555	ERDS2TJ473	CARBON 1/4W 47K ( A,B )		
R555	ERDS2TJ333T	CARBON 1/4W 33K ( C,D,E )		
	ERDS2TJ473	CARBON 1/4W 47K ( A,B )		
R556				
R556 R556	ERDS2TJ223	CARBON 1/4W 22K ( C,D,E )	<b>A</b>	
R556 R556 R561	ERDS2TJ223 ERQ1CJP2R7S	CARBON 1/4W 22K ( C,D,E ) FUSE 1W 2.7 ( A,B )	<u> </u>	
R556 R556 R561 R561	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S	CARBON 1/4W 22K ( C,D,E ) FUSE 1W 2.7 ( A,B ) FUSE 1W 2.2 ( C,D,E )	Δ	
R556 R556 R561 R561 R562	ERDS2TJ223 ERQ1CJP2R7S	CARBON 1/4W 22K ( C,D,E ) FUSE 1W 2.7 ( A,B ) FUSE 1W 2.2 ( C,D,E ) W FLMPRF 5W 3.9 ( A,B )		
R556 R556 R561 R561 R562	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S	CARBON 1/4W 22K ( C,D,E ) FUSE 1W 2.7 ( A,B ) FUSE 1W 2.2 ( C,D,E )		
R556 R556 R561 R561 R562	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S ERF5ZK3R9	CARBON 1/4W 22K ( C,D,E ) FUSE 1W 2.7 ( A,B ) FUSE 1W 2.2 ( C,D,E ) W FLMPRF 5W 3.9 ( A,B )		
R556 R556 R561 R561 R562 R562	ERDS2TJ223 ERQ1CJF2R7S ERQ1CJF2R2S ERF5ZK3R9 ERF5ZK2R2 ERJ6GEYJ101V	CARBON 1/4W 22K ( C,D,E )  FUSE 1W 2.7 ( A,B )  FUSE 1W 2.2 ( C,D,E )  W FLMPRF 5W 3.9 ( A,B )  W FLMPRF 5W 2.2 ( C,D,E )  MGF CHIP 1/10W 100		
R556 R556 R561 R561 R562 R562 R571	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S ERF5ZK3R9 ERF5ZK2R2 ERJ6GEYJ101V ERDS2TJ561	CARBON 1/4W 22K ( C,D,E )  FUSE 1W 2.7 ( A,B )  FUSE 1W 2.2 ( C,D,E )  W FLMPRF 5W 3.9 ( A,B )  W FLMPRF 5W 2.2 ( C,D,E )  MGF CHIP 1/10W 100  CARBON 1/4W 560		
R556 R556 R561 R561 R562 R562 R571 R572	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S ERF5ZK3R9 ERF5ZK2R2 ERJ6GEYJ101V ERDS2TJ561 ERDS2TJ101	CARBON 1/4W 22K ( C,D,E )  FUSE 1W 2.7 ( A,B )  FUSE 1W 2.2 ( C,D,E )  W FLMPRF 5W 3.9 ( A,B )  W FLMPRF 5W 2.2 ( C,D,E )  MGF CHIP 1/10W 100  CARBON 1/4W 560  CARBON 1/4W 100		
R556 R556 R561 R561 R562 R562 R571 R572 R573	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S ERF5ZK3R9 ERF5ZK2R2 ERJ6GEYJ101V ERDS2TJ561 ERDS2TJ101 ERJ6GEYJ103V	CARBON 1/4W 22K ( C,D,E )  FUSE 1W 2.7 ( A,B )  FUSE 1W 2.2 ( C,D,E )  W FLMPRF 5W 3.9 ( A,B )  W FLMPRF 5W 2.2 ( C,D,E )  MGF CHIP 1/10W 100  CARBON 1/4W 560  CARBON 1/4W 100  MGF CHIP 1/10W 10K		
R556 R556 R561 R561 R562 R562 R562 R571 R572 R573 R574 R585	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S ERF5ZK3R9 ERF5ZK2R2 ERJ6GEYJ101V ERDS2TJ561 ERDS2TJ101 ERJ6GEYJ103V ERDS2TJ683	CARBON 1/4W 22K ( C,D,E )  FUSE 1W 2.7 ( A,B )  FUSE 1W 2.2 ( C,D,E )  W FLMPRF 5W 3.9 ( A,B )  W FLMPRF 5W 2.2 ( C,D,E )  MGF CHIP 1/10W 100  CARBON 1/4W 560  CARBON 1/4W 100  MGF CHIP 1/10W 10K  CARBON 1/4W 68K ( C,D,E )		
R556 R556 R561 R561 R562 R562 R562 R571 R572 R573 R574 R585	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S ERF5ZK3R9 ERF5ZK2R2 ERJ6GEYJ101V ERDS2TJ561 ERDS2TJ101 ERJ6GEYJ103V	CARBON 1/4W 22K ( C,D,E )  FUSE 1W 2.7 ( A,B )  FUSE 1W 2.2 ( C,D,E )  W FLMPRF 5W 3.9 ( A,B )  W FLMPRF 5W 2.2 ( C,D,E )  MGF CHIP 1/10W 100  CARBON 1/4W 560  CARBON 1/4W 100  MGF CHIP 1/10W 10K		
R556 R556 R5561 R561 R562 R562 R571 R572 R573 R574 R585 R586	ERDS2TJ223 ERQ1CJP2R7S ERQ1CJP2R2S ERF5ZK3R9 ERF5ZK2R2 ERJ6GEYJ101V ERDS2TJ561 ERDS2TJ101 ERJ6GEYJ103V ERDS2TJ683	CARBON 1/4W 22K ( C,D,E )  FUSE 1W 2.7 ( A,B )  FUSE 1W 2.2 ( C,D,E )  W FLMPRF 5W 3.9 ( A,B )  W FLMPRF 5W 2.2 ( C,D,E )  MGF CHIP 1/10W 100  CARBON 1/4W 560  CARBON 1/4W 100  MGF CHIP 1/10W 10K  CARBON 1/4W 68K ( C,D,E )		

Ref. No.	Part No.	Part Name & Description	Remarks
R592	ERDS2TJ472	CARBON 1/4W 4.7K	
R701	ERQ1ABJP560S	FUSE 1W 560 ( C,D,E )	⚠
R710	ERQ1CJP2R2S	FUSE 1W 2.2 ( C,D,E )	Δ
R789	ERDS2TJ101	CARBON 1/4W 100	
R801	VRESC2TK825T	SOLID 1/2W 8.2M	⚠
R802	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R803	ERDS2TJ103	CARBON 1/4W 10K	
R804	ERF5ZKR82	W FLMPRF 5W 0.82	Δ
R804	LSREFDWKR82Z	W FLMPRF 5W 0.82	$\triangle$
R850	D0AF184JA038	CARBON 1/2W 180K	
R851	ERD2FCG681V	FUSE 1/4W 680	Δ
R852	ERDS2TJ683	CARBON 1/4W 68K	
R853	ERDS2TJ683	CARBON 1/4W 68K	
R855	ERX2SZJR10P	METAL FILM 2W 0.1	
R857	ERJ6GEYJ272V	MGF CHIP 1/10W 2.7K	
R858	ERDS2TJ4R7	CARBON 1/4W 4.7	
R860	ERJ6GEYJ122V	MGF CHIP 1/10W 1.2K	
R866	ERG2SJ333H	METAL OXIDE 2W 33K	

2055					
R866	ERG2SJ333H	METAL OXIDE 2W 33K			
	CAPACITORS				
Ref.	Part No.	Part Name & Description	Remarks		
No.					
C401	BCA1HM2R2B	ELECTROLYTIC 50V 2.2UF ( A,B )			
C401	ECEA1HKAR33B	ELECTROLYTIC 50V 0.33UF (C,D,E)			
C402	ECA1CM471B	ELECTROLYTIC 16V 470UF			
C408	ECA1HGE010KB	ELECTROLYTIC 50V 1UF			
C409	ECA1VM221B	ELECTROLYTIC 35V 220UF			
C413	ECQB1H104KF	POLYESTER 50V 0.1UF ( A,B )			
C413	ECQB1104JF3	POLYESTER 200V 0.10UF ( C,D,E			
C414	ECA1EM102E	ELECTROLYTIC 25V 1000UF ( A,B)			
C414	ECA1EM222B	ELECTROLYTIC 25V 2200UF (C,D,E)			
C418	ECA1VM331B	ELECTROLYTIC 35V 330UF ( A,B			
C418	ECA1VM471B	ELECTROLYTIC 35V 470UF (C,D,E)			
C458	ECQB1H103KF3	POLYESTER 50V 0.01UF			
C460	ECA1HM010B	ELECTROLYTIC 50V 1UF ( C,D,E			
C510	ECKR2H102KB5	CERAMIC 500V 1000PF ( A,B )			
C510	ECKR2H681KB5	CERAMIC 500V 680PF ( C,D,E )			
C513	ECA1VM470B	ELECTROLYTIC 35V 47UF			
C521	ECA1HM100B	ELECTROLYTIC 50V 10UF			
C523	ECA1HM100B	ELECTROLYTIC 50V 10UF			
C524	ECKR3D222KBP	CERAMIC 2KV 2200PF ( C,D,E )	$\triangle$		
C524	ECKW3D222KBP	CERAMIC 2KV 2200PF ( C,D,E )	$\triangle$		
C525	ECKR3D152KBP	CERAMIC 2KV 1500PF ( C,D,E )	<u></u>		
C525	ECKW3D152KBP	CERAMIC 2KV 1500PF ( C,D,E )	<u></u>		
C526	BCQB1H473KF3	POLYESTER 50V 0.047UF ( C,D,E			
C541	ECEA1CKN220I	ELECTROLYTIC 16V 22UF			
C552	ECWH16123JVB	POLYESTER 1250V 0.012UF ( C,D,E)			
C554	ECQF4393JZH	CERAMIC 400V 0.39UF ( C,D,E )			
C555	ECWH16912JVB	POLYESTER 1250V 0.091UF ( A,B	Δ		
C555	F0A3C912A002	POLYESTER 1250V 0.091UF ( A,B	Δ		
C555	LSCFN12912JB	POLYESTER 1250V 0.091UF ( A,B	Δ		
C555	ECWH20332JVB	POLYESTER 1250V 3300P ( C,D,E	Δ		
C556	ECWF2244JBB	POLYESTER 250V 0.24UF ( A,B )			
C556	ECWF2394JSB	POLYESTER 250V 0.39UF ( C,D,E			
C558	ECA1VM331B	ELECTROLYTIC 35V 330UF ( A,B			
C558	ECA1VM102B	ELECTROLYTIC 35V 1000UF (C,D,E)			
C560	ECA2EM100B	ELECTROLYTIC 250V 10UF	⚠		
C561	ECA1HM4R7B	ELECTROLYTIC 50V 4.7UF			
C562	ECA1HM2R2B	ELECTROLYTIC 50V 2.2UF (			
		C,D,E)			

Ref. No.	Part No.	Part Name & Description	Remarks
L855	VLQSAB7D100K	COIL 10UH	
L856	VLQSAB7D220K	COIL 22UH	
L857	Ј0ЈНВ0000021	FILTER	

	PIN HEADERS				
Ref.	Part No.	Part Name & Description	Remarks		
P501	K1MN19A00037	CONNECTOR 19P			
P503	K1MP06A00004	CONNECTOR 6P ( C,D,E )			
P504	K1MP04A00013	CONNECTOR 4P ( A,B )			
P801	LSJP0814	CONNECTOR 2P			
P802	VEKS5825	CONNECTOR CABLE W/PLUG			

11002	AHYDOOO	COMMECTOR CADDE W/FEGG	
	Fl	JSE & PROTECTOR	
Ref. No.	Part No.	Part Name & Description	Remarks
F801	K5D632AQ0002	FUSE 125V 6.3A	⚠
F801	K5D632ADA001	FUSE 125V 6.3A	$\triangle$
F801	K5D632AD0002	FUSE 125V 6.3A	$\triangle$
PR850	LSSF009A70E	IC PROTECTOR 7A	$\triangle$

K1KA02A00229 | CONNECTOR 2P

P850

	RELAY				
Ref.	Part No.	Part Name & Description	Remarks		
No.					
RL591	LSSY0004	RELAY	⚠		
RL591	K6B1AGA00034	RELAY	⚠		
RL591	K6B1AGA00042	RELAY	$\triangle$		
RL591	TSEH0013	RELAY	$\triangle$		
RL591	TSEH1860-1	RELAY	$\triangle$		
RL801	LSSY0004	RELAY	$\triangle$		
RL801	K6B1AGA00034	RELAY	$\triangle$		
RL801	K6B1AGA00042	RELAY	$\triangle$		
RL801	TSEH0013	RELAY	Δ		
RL801	TSEH1860-1	RELAY	$\triangle$		

Ref.	Part No.	Part Name & Description	Remarks
T501	ETH09K8AZ	TRANSFORMER ( A,B )	
T501	ETH19Y70AY	TRANSFORMER ( C,D,E )	
T551	G4G5K0000001	TRANSFORMER ( A,B )	$\triangle$
T551	G4G6L0000003	TRANSFORMER ( C,D,E )	$\triangle$
T850	LSTP0124	TRANSFORMER ( A,B )	$\triangle$
T850	ETS35AA6S5ND	TRANSFORMER ( C,D,E )	$\triangle$

PRINTED CIRCUIT BOARD ASSEMBLY				
Ref. No.	Part No.	Part Name & Description	Remarks	
E31	LSEP2075A	DEFLECTION C.B.A. ( C,D,E )	RTL	

	MISCELLANEOUS				
Ref. No.	Part No.	Part Name & Description	Remarks		
470	XTV3+10G	TAPPING SCREW, STEEL			
483	XYN3+F10S	SCREW W/WASHER, STEEL			
728	LUS63008A	HEAT SINK ( A,B )			
728	LSSC0254	HEAT SINK ( C,D,E )			
751	LML69001A	ANODE LEAD CLAMPER			
760	TUC77628	HEAT SINK			
771	EYF52BC	FUSE HOLDER			
797	LSSC0529	HEAT SINK ( A,B )			
797	LSSC0562	HEAT SINK ( C,D,E )			

# 12.3.4. DEFLECTION C.B.A.

(Models: C, D, E)

Ref. No.	Part No.	Part Name & Description	Remarks
C563	ECKR2H681KB5	CERAMIC 500V 680PF	
C564	ECKW3D561KBP	CERAMIC 2KV 560PF ( C,D,E )	
C571	ECA1CM101B	ELECTROLYTIC 16V 100UF	
C575	F2A2D3300010	ELECTROLYTIC 200V 33UF	
C576	ECKW3D681KBP	CERAMIC 2KV 680PF ( A,B )	Δ
C576	ECKC3D681KBP	CERAMIC 2KV 680PF ( A,B )	$\triangle$
C703	ECQE1685KFB	POLYESTER 100V 0.68UF ( C,D,E	
C704	ECQE2474KFB	POLYESTER 250V 0.47 ( C,D,E )	
C801	F0CAF104A021	POLYESTER 125V 0.1UF	Δ
C803	ECKATS103MF	CERAMIC 250V 0.01UF	Δ
C803	ECKETS103MF	CERAMIC 125V 0.01UF	Δ
C803	VCKST3G103MY	CERAMIC 250V 0.01UF	Δ
C803	VCKSU3D103MY	CERAMIC 125V 0.01UF	Δ
C806	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C807	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C808	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C809	VCKSRNG472ZX	CERAMIC 250V 4700PF	
C855	ECA1HHG470B	ELECTROLYTIC 50V 47UF	
C856	ECJ2VB1H471K	C CHIP 50V 470PF	
C857	VCESAS2D331E	ELECTROLYTIC 200V 330UF ( A,B	Δ
C857	ECEC2DP331BB	ELECTROLYTIC 200V 330UF ( A,B)	Δ
C857	F2A2D3310002	ELECTROLYTIC 200V 330UF ( A,B)	Δ
C857	F2B2D3310013	ELECTROLYTIC 200V 330UF ( A,B)	Δ
C857	VCESAS2D561E	ELECTROLYTIC 200V 560UF (C,D,E)	Δ
C857	ECEC2DP561BB	ELECTROLYTIC 200V 560UF (C,D,E)	Δ
C857	F2B2D5610011	ELECTROLYTIC 200V 560UF (C,D,E)	Δ
C857	VCESAY2D561E	ELECTROLYTIC 200V 560UF (C,D,E)	Δ
C858	F1B3D152A010	CERAMIC 2KV 1500PF	
C859	ECJ2VB1H221K	C CHIP 50V 220P	
C861	ECKATS152ME	CERAMIC 250V 1500PF	$\triangle$
C861	ECKETS152ME	CERAMIC 250V 1500PF	$\triangle$
C861	VCKST4D152MX	CERAMIC 250V 1500PF	$\triangle$
C861	VCKST5D152MX	CERAMIC 250V 1500PF	$\triangle$
C861	VCKSU4D152MX	CERAMIC 250V 1500PF	$\triangle$
C861	VCKSU5D152MX	CERAMIC 250V 1500PF	$\triangle$
C864	F1B3A102A009	CERAMIC 25V 1000PF	
C865	ECA1EM471B	ELECTROLYTIC 25V 470UF	
C867	VCESAS2D331E	ELECTROLYTIC 200V 330UF	⚠
C867	ECEC2DP331BB	ELECTROLYTIC 200V 330UF	$\triangle$
C867	F2A2D3310002	ELECTROLYTIC 200V 330UF	Δ
C867	F2B2D3310013	ELECTROLYTIC 200V 330UF	Δ
C868	ECA1EM471B	ELECTROLYTIC 25V 470UF	
C869	ECKR2H221KB5	CERAMIC 500V 220PF	
C870	ECA2DHG4R7B	ELECTROLYTIC 200V 4.7UF	
C872	ECEA2DU820YE	ELECTROLYTIC 200V 82UF	Δ
C872	F2A2D8200001	ELECTROLYTIC 200V 82UF	Δ
C872	F2A2D8200003	ELECTROLYTIC 200V 82UF	Δ
C872	VCESR2D820XE	ELECTROLYTIC 200V 82UF	Δ

COILS				
Ref. No.	Part No.	Part Name & Description	Remarks	
L551	ELH5L6141	COIL ( C,D,E )	Δ	
L552	J0JKA0000015	COIL		
L554	ELH5L4149	COIL ( A,B )	Δ	
L554	G0D790000001	COIL ( A,B )	Δ	
L554	ELH5L8106	COIL ( C,D,E )	Δ	
L701	ELC16B471E	COIL 470UH ( C,D,E )		
L704	LSLQA10R682J	COIL 6800UH ( C,D,E )		
L801	G0B452H00001	LINE FILTER	Δ	
L801	ELF21V025A	LINE FILTER	Δ	
L801	J0HBLH000001	LINE FILTER	Δ	
L802	G0B452H00001	LINE FILTER	Δ	
L802	ELF21V025A	LINE FILTER	Δ	
L802	J0HBLH000001	LINE FILTER	Δ	
T.850	.TO.TK > 0000016	PEDDITE BEAD WITH I.PAD		

## **COMPARISON CHART OF MODELS & MARKS**

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#### INTEGRATED CIRCUITS

	Ref. No.	Part No.	Part Name & Description	Remarks
[	IC752	C0ABAA000005	IC, LINEAR	

#### TRANSISTORS

Ref.	Part No.	Part Name & Description	Remarks
NO.			
Q751	2SD14990P0LB	TRANSISTOR SI NPN	
Q751	2SD14990Q0LB	TRANSISTOR SI NPN	
Q753	2SA1309ARA	TRANSISTOR SI PNP	
Q753	2SA1309ARA	TRANSISTOR SI PNP	
Q753	2SA1309ASA	TRANSISTOR SI PNP	
Q754	2SC3311ARA	TRANSISTOR SI NPN	
Q754	2SC3311ARA	TRANSISTOR SI NPN	
Q754	2SC3311ASA	TRANSISTOR SI NPN	

#### DIODES

Ref.	Part No.	Part Name & Description	Remarks
No.			
D704	MA2C029TAF	DIODE SI	
D752	MA2C165001VT	DIODE SI	
D752	B0AACK000004	DIODE SI	
D752	188119	DIODE SI	

#### RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R713	ERDS2TJ471	CARBON 1/4W 470	
R714	ERDS2TJ272	CARBON 1/4W 2.7K	
R751	ERDS2TJ101	CARBON 1/4W 100	
R752	ERJ6GEYJ181V	MGF CHIP 1/10W 180	
R753	EVMEGSA00B14	VARIABLE 10K	
R755	ERDS2TJ101	CARBON 1/4W 100	
R756	ERDS2TJ152	CARBON 1/4W 1.5K	
R757	ERJ6GEYJ752V	MGF CHIP 1/10W 7.5K	
R758	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	
R759	ERJ6GEYJ683V	MGF CHIP 1/10W 68K	
R760	ERJ6GEYJ474V	MGF CHIP 1/10W 470K	
R761	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R762	ERJ6GEYJ123V	MGF CHIP 1/10W 12K	
R763	EVMEGSA00B14	VARIABLE 10K	
R764	ERJ6GEYJ682V	MGF CHIP 1/10W 6.8K	
R765	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R766	EVMEGSA00B14	VARIABLE 10K	
R767	ERJ6GEYJ123V	MGF CHIP 1/10W 12K	
R768	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R769	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R771	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R772	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K	
R773	ERJ6GEYJ823V	MGF CHIP 1/10W 82K	
R774	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R775	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	
R776	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R777	ERJ6GEYJ154V	MGF CHIP 1/10W 150K	
R779	ERJ6GEYJ124V	MGF CHIP 1/10W 120K	
R791	ERJ6GEYJ822V	MGF CHIP 1/10W 8.2K	
R792	ERJ6GEYJ822V	MGF CHIP 1/10W 8.2K	
R793	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R794	ERJ6GEYJ152V	MGF CHIP 1/10W 1.5K	
R795	ERJ6GEYJ393V	MGF CHIP 1/10W 39K	
R796	ERJ6GEYJ154V	MGF CHIP 1/10W 150K	
R797	ERJ6GEYJ154V	MGF CHIP 1/10W 150K	

Ref. No.	Part No.	Part Name & Description	Remarks
R798	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R799	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	

#### CAPACITORS

Ref.	Part No.	Part Name & Description	Remarks
C761	ECJ2VF1H103Z	C CHIP 50V 0.01UF	
C762	ECA1CM100B	ELECTROLYTIC 16V 10UF	
C763	VCUSTBC224KB	C CHIP 16V 0.22UF	
C764	ECJ2VB1H102K	C CHIP 50V 1000PF	
C765	ECEA1HKAR33B	ELECTROLYTIC 50V 0.33UF	
C767	ECJ2VB1C104K	C CHIP 16V 0.1UF	
C768	ECJ2VB1H392K	C CHIP 50V 3900PF	
C792	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C793	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C794	ECA1VM470B	ELECTROLYTIC 35V 47UF	
C795	ECA1EM471B	ELECTROLYTIC 25V 470UF	

#### PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P504	VJHS0297	PACK PIN 7P	

#### MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
483	XYN3+F10S	SCREW W/WASHER, STEEL	
713	VMAS1912	P.C.B. SUPPORT ANGLE	
794	TUC15776	HEAT SINK PLATE	

## 12.3.5. POWER SUPPLY C.B.A.

#### INTEGRATED CIRCUITS

Ref.	Part No.	Part Name & Description	Remarks
IC1001	C5HABZZ00101	IC, LINEAR	Δ
IC1002	CNC1S101R1KT	IC, LINEAR	Δ
IC1002	CNC1S101S1KT	IC, LINEAR	Δ
IC1003	CODAEMZ00005	IC, LINEAR	
IC1003	B1AZKD000001	IC, LINEAR	
IC1003	CODAEMZ00001	IC, LINEAR	
IC1004	CODAEGG00008	IC, LINEAR	
IC9001	AN5832SA-E1	IC, LINEAR	
IC9501	C0ABBB000256	IC, LINEAR	

#### TRANSISTORS

Ref.	Part No.	Part Name & Description	Remarks
No.			
Q1004	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q1004	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q1006	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q1006	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q1007	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q1007	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q1008	UNR221100L	TRANSISTOR SI NPN CHIP	
Q1008	DTC114EK-TX	TRANSISTOR SI NPN CHIP	
Q1009	B1BACC000010	TRANSISTOR SI NPN	
Q1009	2SD1581-T	TRANSISTOR SI NPN	
Q1010	2SD2396K	TRANSISTOR SI NPN	
Q1011	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1011	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q1012	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1012	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q1013	B1BACC000010	TRANSISTOR SI NPN	
Q1013	2SD1581-T	TRANSISTOR SI NPN	
Q1014	2SD235800A	TRANSISTOR SI NPN CHIP	
Q1014	B1AAQB000002	TRANSISTOR SI NPN CHIP	
Q1015	2SD0601AHL	TRANSISTOR SI NPN CHIP	
Q1015	B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q7021	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q7021	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q7031	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q7031	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q9501	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q9501	B1ABCF000020	TRANSISTOR SI NPN CHIP	

Ref.	Part No.	DIODES	Remarks
No.	Part No.	Part Name & Description	Remarks
D1001	B0AAKT000010	DIODE SI	Δ
D1001	B0EAKT000027	DIODE SI	⚠
D1001	B0EAKT000030	DIODE SI	<u> </u>
D1003	BOAAKTOOOO10	DIODE SI	<u> </u>
D1003 D1003	B0EAKT000027	DIODE SI	$\triangle$
D1003	BOAAKTOOOO30	DIODE SI	<u> </u>
D1004	B0EAKT000027	DIODE SI	Δ
D1004	B0EAKT000030	DIODE SI	<u></u>
D1005	B0AAKT000010	DIODE SI	Δ
D1005	B0EAKT000027	DIODE SI	Δ
D1005	B0EAKT000030	DIODE SI	Δ
D1006	B0JAMD000012	DIODE SI	
D1006 D1006	B0JAGE000001 B0JAME000082	DIODE SI	
D1000	B0HAJL000001	DIODE SI	
D1007	B0HAGP000012	DIODE SI	
D1008	B0HAJL000001	DIODE SI	
D1008	B0HAGP000012	DIODE SI	
D1009	B0HAJL000001	DIODE SI	
D1009	B0HAGP000012	DIODE SI	
D1010	BOHAJLOOOOO1	DIODE SI	
D1010 D1011	B0HAGP000012	DIODE SI	+
D1011 D1011	B0HAHP000014 B0HAJP000007	DIODE SI	
D1011	B0HAMP000061	DIODE SI	
D1011	B0HAMP000069	DIODE SI	
D1012	B0JANK000004	DIODE SI	
D1013	B0JBRD000006	DIODE SI	
D1014	B0JANG000006	DIODE SI	
D1015	B0JAME000079	DIODE SI	
D1015	B0JAME000049	DIODE SI	
D1015 D1015	B0JANE000011 B0JANE000022	DIODE SI	
D1013	B0HAHP000014	DIODE SI	
D1017	В0НАЈР000007	DIODE SI	
D1017	B0HAMP000061	DIODE SI	
D1017	вонамроооо69	DIODE SI	
D1020	B0AAML000001	DIODE SI	
D1020	1SR139-400	DIODE SI	
D1021	B0AAML000001	DIODE SI	
D1021 D1022	1SR139-400 B0AAML000001	DIODE SI	
D1022	1SR139-400	DIODE SI	
D1023	MAZ4047NMF	DIODE ZENER 4.7V	
D1024	MA4051N-HTA	DIODE ZENER 5.1V	
D1025	MAZ4100NHF	DIODE ZENER 10V	
D1025	RD10JSAB3	DIODE ZENER 10V	
D1026	MA2C165001VT	DIODE SI	
D1026	B0AACK000004	DIODE SI	
D1026 D1027	1SS119 MA2C165001VT	DIODE SI	
D1027 D1027	B0AACK000004	DIODE SI	
D1027	188119	DIODE SI	
D1030	B0AAML000001	DIODE SI	
D1030	B0EAKL000008	DIODE SI	
D1040	B0HAML000014	DIODE SI	
D1040	B0HAMM000105	DIODE SI	- A
D1041	MAZ22000A	DIODE CI	<u> </u>
D9503 D9503	MA2C165001VT B0AACK000004	DIODE SI	
D9503	1SS119	DIODE SI	
D9504	MA2C165001VT	DIODE SI	
D9504	B0AACK000004	DIODE SI	
D9504	155119	DIODE SI	
D9505	MAZ40510MF	DIODE ZENER 5.1V	
D9505	HZS5C2TD	DIODE ZENER 5.1V	
D9505	HZS5C3TD	DIODE ZENER 5.1V	
D9506	MAZ40510MF	DIODE ZENER 5.1V	
D9506 D9506	HZS5C2TD HZS5C3TD	DIODE ZENER 5.1V	

	Ľ	V-20DF64 / PV-2/DF64 / PV-2/DF4 / PV-20L	7F04-K / PV-2
Ref. No.	Part No.	Part Name & Description	Remarks
D9507	BOAACKOOOOO4	DIODE SI	
D9507	188119	DIODE SI	
D9508	MA2C165001VT	DIODE SI	
D9508	BOAACKOOOOO4	DIODE SI	
D9508	188119	DIODE SI	
D9509	MAZ41200LF	DIODE ZENER 12V	
D9510	MAZ41200LF	DIODE ZENER 12V	
D9511	MAZ41200LF	DIODE ZENER 12V	
D9512	MAZ41200LF	DIODE ZENER 12V	

		RESISTORS	
Ref.	Part No.	Part Name & Description	Remarks
No.		-	
R1002	D0AF473JA038	CARBON 1/2W 47K	
R1003	ERD2FCG681V	FUSE 1/4W 680	$\triangle$
R1004	ERX2SJR22P	METAL FILM 2W 0.22	
R1006	ERJ6GEYJ332V	MGF CHIP 1/10W 3.3K	
R1008	ERJ6GEYJ202V	MGF CHIP 1/10W 2K	
R1009	ERG2SJ104P	METAL OXIDE 2W 100K	
R1011	ERDS2TJ330T	CARBON 1/4W 33	
R1013	ERD25FJ100P	CARBON 1/4W 10	$\triangle$
R1013	ERD25FPJ100P	CARBON 1/4W 10	
R1013	VRESF4FJ100P	CARBON 1/4W 10	
R1014	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R1015	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1016	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R1017	D1BD2431A016	MGF CHIP 1/10W 2.43K	
R1018	D0HD222ZA002	MGF CHIP 1/10W 2.2K	
R1020	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R1021	ERJ6GEYJ822V	MGF CHIP 1/10W 8.2K	
R1022	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R1023	ERJ6GEYJ103V	MGF CHIP 1/10W 10K	
R1024	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R1025	ERDS2TJ822	CARBON 1/4W 8.2K	
R1026	ERDS1TJ182T	CARBON 1/2W 1.8K	
R1027	ERDS1TJ182T	CARBON 1/2W 1.8K	
R1028	ERDS2TJ153	CARBON 1/4W 15K	
R1029	ERDS2TJ331	CARBON 1/4W 330	
R1030	ERDS2TJ153	CARBON 1/4W 15K	
R1031	ERDS2T0T	CARBON 1/4W 0	
R1032	ERJ6GEYJ681V	MGF CHIP 1/10W 680	
R1033	ERDS2TJ153	CARBON 1/4W 15K	
R1034	ERJ6GEYJ681V	MGF CHIP 1/10W 680	
R1035	ERDS2TJ153	CARBON 1/4W 15K	
R1037	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R1038	ERJ6GEY0R00V	MGF CHIP 1/10W 0	
R1039	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R1603	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R7001	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R7002	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R7003	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R7021	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R7022	ERJ6GEYJ273V	MGF CHIP 1/10W 27K	
R7023	ERJ6GEYJ182V	MGF CHIP 1/10W 1.8K	
R7023	ERJ6GEYJ102V	MGF CHIP 1/10W 1.5K	+
R9002	ERJ6GEYJ101V	MGF CHIP 1/10W IK	+
R9002	ERJ6GEYJ101V	MGF CHIP 1/10W 100	+
R9003	ERJ6GEYJ332V	MGF CHIP 1/10W 100	+
R9004 R9005	ERJ6GEYJ473V	MGF CHIP 1/10W 3.3K	+
	ERJ6GEYJ102V		+
R9006 R9007			+
	ERJ6GEYJ102V ERJ6GEYJ473V	MGF CHIP 1/10W 1K	+
R9008	<b>.</b>	MGF CHIP 1/10W 47K	+
R9501	ERJ6GEYJ750V	MGF CHIP 1/10W 75	+
R9502	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	+
R9503	ERJ6GEYJ562V	MGF CHIP 1/10W 5.6K	+
R9504	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
R9505	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	+
R9506	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	+
BAEAE			
R9507 R9508	ERJ6GEYJ472V ERJ6GEYJ562V	MGF CHIP 1/10W 4.7K MGF CHIP 1/10W 5.6K	

1		CAPACITORS	
Ref. No.	Part No.	Part Name & Description	Remarks
C1001	ECKDRS101MBY	CERAMIC 125V 100PF	Δ
C1001	ECKATS101MB	CERAMIC 125V 100PF	<u> </u>
C1001	ECKETS101MB	CERAMIC 125V 100PF	<u> </u>
C1001	ECKMRS101MBY	CERAMIC 125V 100PF	$\triangle$
C1001	VCKSTJG101KW	CERAMIC 125V 100PF	<u> </u>
C1001	VCKSTLG101KW	CERAMIC 125V 100PF	<u> </u>
C1001	VCKSULD101KW	CERAMIC 125V 100PF	Δ
C1001	VCKSIJD101KW	CERAMIC 125V 100PF	$\triangle$
C1002	ECKDRS101MBY	CERAMIC 125V 100PF	$\triangle$
C1002	ECKATS101MB	CERAMIC 125V 100PF	$\triangle$
C1002	ECKETS101MB	CERAMIC 125V 100PF	Δ
C1002	ECKMRS101MBY	CERAMIC 125V 100PF	Δ
C1002	VCKSTJG101KW	CERAMIC 125V 100PF	<u></u>
C1002	VCKSTLG101KW	CERAMIC 125V 100PF	Δ
	<b>+</b>		
C1002	VCKSULD101KW	CERAMIC 125V 100PF	<u> </u>
C1002	VCKSIJD101KW	CERAMIC 125V 100PF	<u> </u>
C1003	ECKATS103MF	CERAMIC 250V 0.01UF	Δ
C1003	ECKETS103MF	CERAMIC 125V 0.01UF	<u> </u>
C1003	VCKST3G103MY	CERAMIC 250V 0.01UF	Δ
C1003	VCKSU3D103MY	CERAMIC 125V 0.01UF	Δ
C1004	ECKATS332ME8	CERAMIC 250V 3300PF	Δ
C1004	ECKDNB332ME8	CERAMIC 250V 3300PF	$\triangle$
C1004	ECKETS332ME8	CERAMIC 250V 3300PF	$\triangle$
		CERAMIC 250V 3300PF	<u> </u>
C1004	VCKST3G332MX		
C1004	VCKSU3D332MX	CERAMIC 250V 3300PF	<u> </u>
C1005	ECKATS152ME	CERAMIC 250V 1500PF	<u> </u>
C1005	ECKETS152ME	CERAMIC 250V 1500PF	$\triangle$
C1005	VCKST4D152MX	CERAMIC 250V 1500PF	$\triangle$
C1005	VCKST5D152MX	CERAMIC 250V 1500PF	$\triangle$
C1005	VCKSU4D152MX	CERAMIC 250V 1500PF	Δ
C1005	VCKSU5D152MX	CERAMIC 250V 1500PF	$\triangle$
C1006	ECA1HHG470B	ELECTROLYTIC 50V 47UF	
C1007	ECJ2VC1H471J	C CHIP 50V 470PF	
C1008	ECEA2DU121YE	ELECTROLYTIC 200V 120UF	<u> </u>
C1008	F2A2D1210001	ELECTROLYTIC 200V 120UF	<u> </u>
C1008	F2A2D1210003	ELECTROLYTIC 200V 120UF	Δ
C1008	VCESR2D121XE	ELECTROLYTIC 200V 120UF	$\triangle$
C1009	F1B3D471A011	CERAMIC 2KV 470PF	
C1010	ECKR2H221KB5	CERAMIC 500V 220PF	
C1011	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C1012	ECA2DHG4R7B	ELECTROLYTIC 200V 4.7UF	
		C CHIP 50V 560PF	+
C1013	ECJ2VB1H561K		
C1023	ECJ2VC1H101J	C CHIP 50V 100PF	
C1024	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1025	EEUFF1E471B	ELECTROLYTIC 25V 470UF	
C1026	ECA1HHG470B	ELECTROLYTIC 50V 47UF	
C1027	EEUFF0J222E	ELECTROLYTIC 6.3V 2200UF	
C1028	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1030	ECJ2VB1C224K	C CHIP 16V 0.22UF	
C1033	ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
C1033	ECA00M102B ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
C1035	ECA1EM331B	ELECTROLYTIC 25V 330UF	
C1037	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1039	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C1040	ECA0JM102B	ELECTROLYTIC 6.3V 1000UF	
C1041	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C1043	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C1045	ECJ2YB1C334K	C CHIP 16V 0.33UF	
C1046	ECA1HM100B	ELECTROLYTIC 50V 10UF	
C1049	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1050	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C1051	ECEA1CKA470	ELECTROLYTIC 16V 47UF	
C1052	ECA0JM101B	ELECTROLYTIC 6.3V 100UF	
C1054	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1056	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1057	ECEA0JEE101B	ELECTROLYTIC 6.3V 100UF	
C1059	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C1060	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C1061	ECJ2FB0J106M	C CHIP 6.3V 10UF	
C1062	ECJ2FB0J106M	C CHIP 6.3V 10UF	
C1063	ECEA1PEE331	ELECTROLYTIC 18V 330UF	
C1066	ECA1CM331B	ELECTROLYTIC 16V 330UF	1

C1067	
C1070 ECJ2FB0J106M C CHIP 6.3V 10UF C1071 ECJ2YB1H104K C CHIP 50V 0.1UF C1601 ECJ2VC1H270J C CHIP 50V 27PF C1602 ECJ2VB1E104K C CHIP 25V 0.1UF C1603 ECEA1EKA4R7 ELECTROLYTIC 25V 4.7UF C7001 ECA0JM102B ELECTROLYTIC 6.3V 1000UF C7002 ECJ2VB1H103K C CHIP 50V 0.01UF C7006 ECJ2VC1H390J C CHIP 50V 39PF C7007 ECJ2VC1H220J C CHIP 50V 22PF C7008 ECJ2VB1H102K C CHIP 50V 1000PF C7011 ECJ2VB1H103K C CHIP 50V 0.01UF C7021 ECJ2VB1H103K C CHIP 50V 0.01UF	
C1071 ECJ2YB1H104K C CHIP 50V 0.1UF  C1601 ECJ2VC1H270J C CHIP 50V 27PF  C1602 ECJ2VB1B104K C CHIP 25V 0.1UF  C1603 ECEA1EKA4R7 ELECTROLYTIC 25V 4.7UF  C7001 ECA0JM102B ELECTROLYTIC 6.3V 1000UF  C7002 ECJ2VB1H103K C CHIP 50V 0.01UF  C7006 ECJ2VC1H390J C CHIP 50V 39PF  C7007 ECJ2VC1H220J C CHIP 50V 22PF  C7008 ECJ2VB1H102K C CHIP 50V 1000PF  C7011 ECJ2VB1H103K C CHIP 50V 0.01UF  C7021 ECJ2VB1H103K C CHIP 50V 0.01UF	
C1601 ECJ2VC1H270J C CHIP 50V 27PF  C1602 ECJ2VB1E104K C CHIP 25V 0.1UF  C1603 ECEA1EKA4R7 ELECTROLYTIC 25V 4.7UF  C7001 ECA0JM102B ELECTROLYTIC 6.3V 1000UF  C7002 ECJ2VB1H103K C CHIP 50V 0.01UF  C7006 ECJ2VC1H390J C CHIP 50V 39PF  C7007 ECJ2VC1H220J C CHIP 50V 22PF  C7008 ECJ2VB1H102K C CHIP 50V 1000PF  C7011 ECJ2VB1H103K C CHIP 50V 0.01UF  C7021 ECJ2VB1H103K C CHIP 50V 0.01UF	
C1602 ECJ2VB1E104K C CHIP 25V 0.1UF  C1603 ECEA1EKA4R7 ELECTROLYTIC 25V 4.7UF  C7001 ECA0JM102B ELECTROLYTIC 6.3V 1000UF  C7002 ECJ2VB1H103K C CHIP 50V 0.01UF  C7006 ECJ2VC1H390J C CHIP 50V 39PF  C7007 ECJ2VC1H220J C CHIP 50V 22PF  C7008 ECJ2VB1H102K C CHIP 50V 1000PF  C7011 ECJ2VB1H103K C CHIP 50V 0.01UF  C7021 ECJ2VB1H103K C CHIP 50V 0.01UF	
C1603	
C7001 ECA0JM102B ELECTROLYTIC 6.3V 1000UF C7002 ECJ2VB1H103K C CHIP 50V 0.01UF C7006 ECJ2VC1H390J C CHIP 50V 39PF C7007 ECJ2VC1H220J C CHIP 50V 22PF C7008 ECJ2VB1H102K C CHIP 50V 1000PF C7011 ECJ2VB1H103K C CHIP 50V 0.01UF C7021 ECJ2VB1H103K C CHIP 50V 0.01UF	
C7002 ECJ2VB1H103K C CHIP 50V 0.01UF  C7006 ECJ2VC1H390J C CHIP 50V 39PF  C7007 ECJ2VC1H220J C CHIP 50V 22PF  C7008 ECJ2VB1H102K C CHIP 50V 1000PF  C7011 ECJ2VB1H103K C CHIP 50V 0.01UF  C7021 ECJ2VB1H103K C CHIP 50V 0.01UF	
C7006	
C7007	
C7008 ECJ2VB1H102K C CHIP 50V 1000PF C7011 ECJ2VB1H103K C CHIP 50V 0.01UF C7021 ECJ2VB1H103K C CHIP 50V 0.01UF	
C7011 BCJ2VB1H103K C CHIP 50V 0.01UF C7021 BCJ2VB1H103K C CHIP 50V 0.01UF	
C7021 BCJ2VB1H103K C CHIP 50V 0.01UF	
C7022 ECJ2VB1H103K C CHIP 50V 0.01UF	
C7032 ECJ2VB1H103K C CHIP 50V 0.01UF	
C7033 ECEA1CKA100 ELECTROLYTIC 16V 10UF	
C9001 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF	
C9002 ECEA1CKA100 ELECTROLYTIC 16V 10UF	
C9003 ECEA1HKAR33 ELECTROLYTIC 50V 0.33UF	
C9004 ECEA1HKA3R3I ELECTROLYTIC 50V 3.3UF	
C9005 ECJ2VB1C104K C CHIP 16V 0.1UF	
C9007 ECJ2VB1E223K C CHIP 25V 0.022UF	
C9008 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	
C9009 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C9010 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF	
C9011 ECEA1HKA4R7 ELECTROLYTIC 50V 4.7UF	
C9012 ECJ2VB1H102K C CHIP 50V 1000PF	
C9013 ECJ2VB1E104K C CHIP 25V 0.1UF	
C9014 ECJ2VB1H333K C CHIP 50V 0.033UF	
C9015 ECJ2VF1C224Z C CHIP 16V 0.22UF	
C9016 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF	
C9017 ECJ2VB1E104K C CHIP 25V 0.1UF	
C9018 ECEA1HKAR33 ELECTROLYTIC 50V 0.33UF	
C9019 ECJ2VB1H103K C CHIP 50V 0.01UF	
C9021 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF	
C9022 ECEA1HKA2R2 ELECTROLYTIC 50V 2.2UF	
C9024 ECJ2VB1H103K C CHIP 50V 0.01UF	
C9026 ECJ2VC1H560J C CHIP 50V 56PF	
C9027 ECJ2VC1H560J C CHIP 50V 56PF	
C9502 ECEA1CKA100 ELECTROLYTIC 16V 10UF	
C9504 ECEA1CKA100 ELECTROLYTIC 16V 10UF	
C9505 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C9506 ECEA1CKA100 ELECTROLYTIC 16V 10UF	
C9509 ECJ2VF1H103Z C CHIP 50V 0.01UF	
C9510 ECEA1CKA100 ELECTROLYTIC 16V 10UF	

#### COILS

Ref.	Part No.	Part Name & Description	Remarks
No.			
L1001	G0B183E00002	LINE FILTER 0.5A 18MH	$\triangle$
L1001	J0HBLG000001	LINE FILTER 0.5A 18MH	$\triangle$
L1001	BLF15N005A	LINE FILTER 0.5A 18MH	$\triangle$
L1002	Ј0ЈНВ0000021	FILTER	
L1003	Ј0ЈНВ0000021	FILTER	
L1004	VLQSAB7D100K	COIL 10UH	
L1005	G0A100H00014	COIL 10UH	
L1006	G0A9R0H00002	COIL 9UH	
L1007	ELEXT101KE04	COIL 100UH	
L1008	VLQSAB7D220K	COIL 22UH	
L1011	G0A9R0H00002	COIL	
L1014	EXCELDR25V	COIL	
L1015	EXCELDR25V	COIL	
L1601	LSLF0035	EMI FILTER CHIP	
L1602	LSLF0035	EMI FILTER CHIP	
L1603	ELESN220KA	COIL 22UH	
L7001	VLQSAB7D100K	COIL 10UH	
L7002	BLEXT101KE04	COIL 100UH	
L9001	ELESN101KA	COIL 100UH	
L9501	ELESN101KA	COIL 100UH	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P1001	VEKS5901	CONNECTOR CABLE W/PLUG,15V DC	
P1002	VEKS5900-FE	CONNECTOR CABLE W/PLUG,6V DC	
P1006	LSJP0814	CONNECTOR 2P	
P7002	K1MN13A00049	CONNECTOR 13P	
P9501	K1MN13A00049	CONNECTOR 13P	

FUSE	ጼ	PRO	OTF	CT	OR

Ref. No.	Part No.	Part Name & Description	Remarks
F1001	K5D302AQ0003	FUSE 125V 3A	Δ
F1001	K5D302ADA002	FUSE 125V 3A	Δ
F1001	K5D302AD0002	FUSE 125V 3A	Δ
PR1003	UNH000600A	IC PROTECTOR 1.5A	⚠
PR1003	B1ZAZ0000040	IC PROTECTOR 1.5A	$\triangle$
PR1003	LSSF009A25E	IC PROTECTOR 1.5A	$\triangle$
PR1004	LSSF009A35E	IC PROTECTOR 3.5A	$\triangle$
PR1005	UNH000600A	IC PROTECTOR 1.5A	$\triangle$
PR1005	B1ZAZ0000040	IC PROTECTOR 1.5A	$\triangle$
PR1005	LSSF009A25E	IC PROTECTOR 1.5A	$\triangle$
PR1007	UNH000600A	IC PROTECTOR 1.5A	$\triangle$
PR1007	B1ZAZ0000040	IC PROTECTOR 1.5A	Δ
PR1007	LSSF009A25E	IC PROTECTOR 1.5A	Δ

#### TRANSFORMER

Ref. No.	Part No.	Part Name & Description	Remarks
T1001	LSTP0125	TRANSFORMER	$\triangle$

#### **JACKS**

Ref. No.	Part No.	Part Name & Description	Remarks
JK1601	B3RAE0000029	IC, JACK OPTICAL OUTPUT	
JK9501	K2HA203B0011	AUDIO/VIDEO JACK SOCKET	
JK9502	K2HA305B0003	AUDIO/VIDEO JACK SOCKET	

#### **MISCELLANEOUS**

Ref. No.	Part No.	Part Name & Description	Remarks
291	LML69002A	CLAMPER	
483	XYN3+F10S	SCREW W/WASHER, STEEL	
712	VMTS0035	CUSHION, RUBBER	
743	J3AAABB00001	TUNER, UHF/VHF NR	
771	EYF52BC	FUSE HOLDER	
772	LSSC0680	HEAT SINK	

## 12.3.6. CRT C.B.A.

(Models: A, B)

#### **COMPARISON CHART OF MODELS & MARKS**

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	Е

#### TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q351	2SC3063000RL	TRANSISTOR SI NPN	
Q351	B1BAAN000034	TRANSISTOR SI NPN	
Q351	B1BAAN000035	TRANSISTOR SI NPN	
Q352	2SC3063000RL	TRANSISTOR SI NPN	
Q352	B1BAAN000034	TRANSISTOR SI NPN	
Q352	B1BAAN000035	TRANSISTOR SI NPN	
Q353	2SC3063000RL	TRANSISTOR SI NPN	
Q353	B1BAAN000034	TRANSISTOR SI NPN	
Q353	B1BAAN000035	TRANSISTOR SI NPN	

#### DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D351	MAZ41500MF	DIODE ZENER 15V	
D351	B0BA01400041	DIODE ZENER 15V	

#### RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R351	ERG2ANJ153H	METAL OXIDE 2W 15K	
R352	ERG2ANJ153H	METAL OXIDE 2W 15K	
R353	ERG2ANJ153H	METAL OXIDE 2W 15K	
R354	ERD25TJ272	CARBON 1/4W 2.7K	
R355	ERD25TJ272	CARBON 1/4W 2.7K	
R356	ERD25TJ272	CARBON 1/4W 2.7K	
R357	ERDS2TJ392	CARBON 1/4W 3.9K	
R358	ERDS2TJ392	CARBON 1/4W 3.9K	
R359	ERDS2TJ392	CARBON 1/4W 3.9K	
R360	ERDS2TJ391	CARBON 1/4W 390	
R361	ERDS2TJ391	CARBON 1/4W 390	
R362	ERDS2TJ391	CARBON 1/4W 390	
R363	ERDS2TJ121	CARBON 1/4W 120	
R364	ERDS2TJ121	CARBON 1/4W 120	
R365	ERDS2TJ121	CARBON 1/4W 120	

#### CAPACITORS

Ref.	Part No.	Part Name & Description	Remarks
C351	F1D1H471A012	CERAMIC 50V 470PF	
C352	F1D1H471A012	CERAMIC 50V 470PF	
C353	F1D1H561A012	CERAMIC 50V 560PF	
C354	F1B3D1020008	CERAMIC 2KV 1000PF	
C357	ECA1CM220B	ELECTROLYTIC 16V 22UF	

#### PIN HEADERS

Ref.	Part No.	Part Name & Description	Remarks
No.			
P351	LSJWR4N490AC	CONNECTOR CABLE W/OUT PLUG	
P352	LSJWS4N390AC	CONNECTOR CABLE W/OUT PLUG	
P353	K3B09CA00005	CRT SOCKET	

#### MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
153	TMM7443-1	CLAMPER	

# 12.3.7. CRT C.B.A.

(Models: C, D, E)

#### **COMPARISON CHART OF MODELS & MARKS**

MODEL	MARK
PV-20DF64	Α
PV-20DF64-K	В
PV-27DF64	С
PV-27DF4	D
PV-27DF64-K	Е

## **TRANSISTORS**

Ref. No.	Part No.	Part Name & Description	Remarks
Q351	2SC3063000RL	TRANSISTOR SI NPN	
Q351	B1BAAN000034	TRANSISTOR SI NPN	
Q351	B1BAAN000035	TRANSISTOR SI NPN	
Q352	2SC3063000RL	TRANSISTOR SI NPN	
Q352	B1BAAN000034	TRANSISTOR SI NPN	
Q352	B1BAAN000035	TRANSISTOR SI NPN	
Q353	2SC3063000RL	TRANSISTOR SI NPN	
Q353	B1BAAN000034	TRANSISTOR SI NPN	
Q353	B1BAAN000035	TRANSISTOR SI NPN	
Q354	2SC3311AHA	TRANSISTOR SI PNP CHIP	
Q355	2SC3311AHA	TRANSISTOR SI PNP CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q356	2SC3311AHA	TRANSISTOR SI PNP CHIP	

DIODES

Ref.	Part No.	Part Name & Description	Remarks
No.			
D351	MAZ41500MF	DIODE ZENER 15V	
D351	B0BA01400041	DIODE ZENER 15V	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R351	ERG2ANJ153H	METAL OXIDE 2W 15K	
R352	ERG2ANJ153H	METAL OXIDE 2W 15K	
R353	ERG2ANJ153H	METAL OXIDE 2W 15K	
R354	ERD25TJ272	CARBON 1/4W 2.7K	
R355	ERD25TJ272	CARBON 1/4W 2.7K	
R356	ERD25TJ272	CARBON 1/4W 2.7K	
R357	ERDS2TJ332	CARBON 1/4W 3.3K	
R358	ERDS2TJ332	CARBON 1/4W 3.3K	
R359	ERDS2TJ332	CARBON 1/4W 3.3K	
R360	ERDS2TJ331	CARBON 1/4W 330	
R361	ERDS2TJ331	CARBON 1/4W 330	
R362	ERDS2TJ331	CARBON 1/4W 330	
R363	ERDS2TJ101	CARBON 1/4W 100	
R364	ERDS2TJ101	CARBON 1/4W 100	
R365	ERDS2TJ101	CARBON 1/4W 100	

CAPACITORS

Ref. No.	Part No.	Part Name & Description	Remarks
C351	F1D1H471A012	CERAMIC 50V 470PF	
C352	F1D1H471A012	CERAMIC 50V 470PF	
C353	F1D1H471A012	CERAMIC 50V 470PF	
C354	F1B3D1020008	CERAMIC 2KV 1000PF	
C357	ECA1CM220B	ELECTROLYTIC 16V 22UF	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P351	LSJWR4N540AC	CONNECTOR CABLE W/OUT PLUG	
P352	LSJWS6N390AC	CONNECTOR CABLE W/OUT PLUG	
P355	K3B01YZ00001	CONNECTOR 1P	
P360	K3B09CA00005	CRT SOCKET	

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
273	TMM7464-1	CLAMPER	

# 12.3.8. DVD MAIN C.B.A.

	INTEGRATED CIRCUITS				
Ref. No.	Part No.	Part Name & Description	Remarks		
IC8001	MN2DS03VP1H	IC, SYSTEM LSI	E.S.D. MKI		
IC8002	LSSK0039	IC, 16M FLASH MEMORY	E.S.D. MKI		
IC8003	C3ABPG000133	IC, 64M D RAM	E.S.D. MKI		
IC8003	C3ABPG000067	IC, 64M D RAM	E.S.D. MKI		
IC8003	C3ABPG000102	IC, 64M D RAM	E.S.D. MKI		
IC8003	C3ABPG000135	IC, 64M D RAM	E.S.D. MKI		
IC8004	LSUQ0062	IC, 4K EEP ROM	E.S.D. MKI		
IC8005	CODBEZG00017	IC, LIENAR	MKI		
IC8501	C0FBBK000035	IC, LINEAR	MKI		
IC8503	C0ABBB000256	IC, LINEAR	MKI		
IC8801	C0GBL0000003	IC, LINEAR	MKI		

TRANSISTORS

	HANSSIONS				
Ref.	Part No.	Part Name & Description	Remarks		
Q8401	2SB1218ARL	TRANSISTOR SI PNP CHIP	MKI		
08402	2SB1218ARL	TRANSISTOR SI PNP CHIP	MKI		

Ref. No.	Part No.	Part Name & Description	Remarks
Q8403	2SB1218ARL	TRANSISTOR SI PNP CHIP	MKI
Q8404	2SB1218ARL	TRANSISTOR SI PNP CHIP	MKI
Q8501	UNR511500L	TRANSISTOR COMPLX CMP SI NPN CHIP	MKI
Q8501	B1GDCFJJ0025	TRANSISTOR SI PNP CHIP	MKI
Q8502	UNR521500L	TRANSISTOR SI NPN CHIP	MKI
Q8502	B1GBCFJA0006	TRANSISTOR SI NPN CHIP	MKI
Q8503	UNR521500L	TRANSISTOR SI NPN CHIP	MKI
Q8503	B1GBCFJA0006	TRANSISTOR SI NPN CHIP	MKI
Q8504	UNR521500L	TRANSISTOR SI NPN CHIP	MKI
Q8504	B1GBCFJA0006	TRANSISTOR SI NPN CHIP	MKI
Q8505	UNR521500L	TRANSISTOR SI NPN CHIP	MKI
Q8505	B1GBCFJA0006	TRANSISTOR SI NPN CHIP	MKI
Q8901	2SD1819A0L	TRANSISTOR SI NPN CHIP	MKI
Q8901	B1ABCF000020	TRANSISTOR SI NPN CHIP	MKI
Q8902	2SD1819A0L	TRANSISTOR SI NPN CHIP	MKI
Q8902	B1ABCF000020	TRANSISTOR SI NPN CHIP	MKI
Q8903	2SB0709A0L	TRANSISTOR SI PNP CHIP	MKI
Q8903	B1ADCF000001	TRANSISTOR SI PNP CHIP	MKI
Q8904	2SB0709A0L	TRANSISTOR SI PNP CHIP	MKI
Q8904	B1ADCF000001	TRANSISTOR SI PNP CHIP	MKI
Q8905	UNR521100L	TRANSISTOR COMPLX CMP SI PNP CHIP	MKI
Q8905	B1GBCFJJ0007	TRANSISTOR SI PNP CHIP	MKI
Q8906	UNR511500L	TRANSISTOR COMPLX CMP SI NPN CHIP	MKI
Q8906	B1GDCFJJ0025	TRANSISTOR SI PNP CHIP	MKI
Q8907	B1CFGD000002	TRANSISTOR SI NPN CHIP	MKI
Q8907	XP0187800L	TRANSISTOR SI PNP CHIP	MKI

Ref. Part No. Part Name & Description Remark No. No. Part Name & Description Remark No. R8001 ERJ3GEYJ102V MGF CHIP 1/16W 1K MKI R8003 ERJ3GEYJ472V MGF CHIP 1/16W 2ZK MKI R8004 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K MKI R8005 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K MKI R8006 EXB38V820JV ARRAY CHIP 82 MKI R8006 EXB38V820JV ARRAY CHIP 82 MKI R8008 EXB38V820JV ARRAY CHIP 82 MKI R8009 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K MKI R8010 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8011 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8011 ERJ3GEYJ222V MGF CHIP 1/16W 0 MKI R8015 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K MKI R8016 ERJ3GEYJ222V MGF CHIP 1/16W 220 MKI R8017 ERJ3GEYJ221V MGF CHIP 1/16W 220 MKI R8019 ERJ3GEYJ223V MGF CHIP 1/16W 22C MKI R8020 ERJ3GEYJ223V MGF CHIP 1/16W 2ZK MKI R8020 ERJ3GEYJ223V MGF CHIP 1/16W 2ZK MKI R8021 ERJ3GEYJ62V MGF CHIP 1/16W 2ZK MKI R8021 ERJ3GEYJ62V MGF CHIP 1/16W 2ZK MKI R8024 EXB38V820JV ARRAY CHIP 82 MKI R8024 EXB38V820JV ARRAY CHIP 82 MKI R8026 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8026 ERJ3GEYJ103V MGF CHIP 1/16W 270 MKI R8026 ERJ3GEYJ103V MGF CHIP 1/16W 270 MKI R8027 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8028 ERJ3GEYJ271V MGF CHIP 1/16W 10K MKI R8029 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8030 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 ERJ3GEYJ103V MGF CHIP 1/16W 22K MKI R8036 ERJ3GEYJ103V MGF CHIP 1/16W 22K MKI R8044 DOHB33ZA002 MGF CHIP 1/16W 33 MKI R8044 DOHB33ZA002 MGF CHIP 1/16W 15K MKI			RESISTORS	
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R8010 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8011 ERJ3GEY0R00V MGF CHIP 1/16W 0 MKI R8015 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K MKI R8016 ERJ3GEYJ221V MGF CHIP 1/16W 220 MKI R8017 ERJ3GEYJ221V MGF CHIP 1/16W 220 MKI R8019 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8020 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8021 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8023 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8024 EXB38V820JV ARRAY CHIP 82 MKI R8025 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8026 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8027 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8028 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8029 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8030 ERJ3GEYJ270V MGF CHIP 1/16W 270 MKI R8031 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8032 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ270V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 EXB38V820JV ARRAY CHIP 82 MKI R8035 EXB36V820JV ARRAY CHIP 82 MKI R8036 EXB36V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8038 DOHB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ23V MGF CHIP 1/16W 33 MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 3.3K MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 3.3K MKI R8044 DOHB151ZA002 MGF CHIP 1/16W 3.3K MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8008	EXB38V820JV	ARRAY CHIP 82	MKI
R8011 ERJ3GEY0R00V MGF CHIP 1/16W 0 MKI R8015 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K MKI R8016 ERJ3GEYJ221V MGF CHIP 1/16W 220 MKI R8017 ERJ3GEYJ221V MGF CHIP 1/16W 220 MKI R8019 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8020 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8021 ERJ3GEYJ2682V MGF CHIP 1/16W 22K MKI R8023 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8024 EXB38V820JV ARRAY CHIP 82 MKI R8025 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8026 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8027 ERJ3GEYJ271V MGF CHIP 1/16W 10K MKI R8028 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8029 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8030 ERJ3GEYJ270V MGF CHIP 1/16W 270 MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 170 MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 170 MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 170 MKI R8034 EXB38V820JV ARRAY CHIP 82 MKI R8035 EXB38V820JV ARRAY CHIP 82 MKI R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ23V MGF CHIP 1/16W 10K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8030 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8031 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8034 EXB3RV820JV ARRAY CHIP 82 MKI R8036 EXB3RV820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ23V MGF CHIP 1/16W 33 MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 33 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 33 MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8009	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	MKI
R8015	R8010	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	MKI
R8016 ERJ3GEYJ221V MGF CHIP 1/16W 220 MKI R8017 ERJ3GEYJ221V MGF CHIP 1/16W 220 MKI R8019 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8020 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8021 ERJ3GEYJ282V MGF CHIP 1/16W 6.8K MKI R8023 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8024 EXB38V820JV ARRAY CHIP 82 MKI R8025 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8026 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8027 ERJ3GEYJ271V MGF CHIP 1/16W 10K MKI R8028 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8029 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8030 ERJ3GEYJ270V MGF CHIP 1/16W 10K MKI R8030 ERJ3GEYJ270V MGF CHIP 1/16W 1K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 1CM MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 EXB3SV820JV ARRAY CHIP 82 MKI R8035 EXB3SV820JV ARRAY CHIP 82 MKI R8036 EXB3SV820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ233V MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ233V MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ233V MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ233V MGF CHIP 1/16W 27K MKI R8030 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8031 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8034 EXB3GEYJ233V MGF CHIP 1/16W 33 MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 3.3K MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8011	ERJ3GEY0R00V	MGF CHIP 1/16W 0	MKI
R8017	R8015	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	MKI
R8019 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8020 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8021 ERJ3GEYJ682V MGF CHIP 1/16W 6.8K MKI R8023 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8024 EXB38V820JV ARRAY CHIP 82 MKI R8025 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8026 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8027 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8028 ERJ3GEYJ271V MGF CHIP 1/16W 10K MKI R8029 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8030 ERJ3GEYJ270V MGF CHIP 1/16W 1K MKI R8030 ERJ3GEYJ270V MGF CHIP 1/16W 1K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 EXB38V820JV ARRAY CHIP 82 MKI R8035 EXB38V820JV ARRAY CHIP 82 MKI R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ23V MGF CHIP 1/16W 27K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 33 MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 33 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8016	ERJ3GEYJ221V	MGF CHIP 1/16W 220	MKI
R8020 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8021 ERJ3GEYJ682V MGF CHIP 1/16W 6.8K MKI R8023 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8024 EXB38V820JV ARRAY CHIP 82 MKI R8025 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8026 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8027 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8028 ERJ3GEYJ271V MGF CHIP 1/16W 10K MKI R8028 ERJ3GEYJ271V MGF CHIP 1/16W 270 MKI R8029 ERJ3GEYJ102V MGF CHIP 1/16W 10K MKI R8030 ERJ3GEYJ270V MGF CHIP 1/16W 10K MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 EXB38V820JV ARRAY CHIP 82 MKI R8035 EXB38V820JV ARRAY CHIP 82 MKI R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ223V MGF CHIP 1/16W 27K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 33 MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 33 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 3.3K MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8017	ERJ3GEYJ221V	MGF CHIP 1/16W 220	MKI
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R8025         ERJ3GEYJ271V         MGF CHIP 1/16W 270         MKI           R8026         ERJ3GEYJ271V         MGF CHIP 1/16W 270         MKI           R8027         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8028         ERJ3GEYJ271V         MGF CHIP 1/16W 270         MKI           R8029         ERJ3GEYJ102V         MGF CHIP 1/16W 1K         MKI           R8030         ERJ3GEYJ103V         MGF CHIP 1/16W 27         MKI           R8031         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8033         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8034         EXB38V820JV         ARRAY CHIP 82         MKI           R8035         EXB38V820JV         ARRAY CHIP 82         MKI           R8036         EXB38V820JV         ARRAY CHIP 82         MKI           R8037         ERJ3GEYJ223V         MGF CHIP 1/16W 22K         MKI           R8038         D0HB273ZA002         MGF CHIP 1/16W 27K         MKI           R8039         ERJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8040         ERJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8041         ERA3YED221V         CARBON CHIP 1/16W 33         MKI	R8023	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	MKI
R8026         ERJ3GEYJ271V         MGF CHIP 1/16W 270         MKI           R8027         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8028         ERJ3GEYJ271V         MGF CHIP 1/16W 270         MKI           R8029         ERJ3GEYJ102V         MGF CHIP 1/16W 1K         MKI           R8030         ERJ3GEYJ103V         MGF CHIP 1/16W 27         MKI           R8031         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8033         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8034         EXB38V820JV         ARRAY CHIP 82         MKI           R8035         EXB38V820JV         ARRAY CHIP 82         MKI           R8036         EXB38V820JV         ARRAY CHIP 82         MKI           R8037         ERJ3GEYJ223V         MGF CHIP 1/16W 22K         MKI           R8038         D0HB273ZA002         MGF CHIP 1/16W 27K         MKI           R8039         ERJ3GEYJ105V         MGF CHIP 1/16W 33         MKI           R8040         ERJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8041         ERA3YED221V         CARBON CHIP 1/16W 33         MKI           R8042         ERJ3GEYJ330V         MGF CHIP 1/16W 3.3K         MKI	R8024	EXB38V820JV	ARRAY CHIP 82	MKI
R8027         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8028         ERJ3GEYJ271V         MGF CHIP 1/16W 270         MKI           R8029         ERJ3GEYJ102V         MGF CHIP 1/16W 1K         MKI           R8030         ERJ3GEYJ103V         MGF CHIP 1/16W 27         MKI           R8031         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8033         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8034         EXB38V820JV         ARRAY CHIP 82         MKI           R8035         EXB38V820JV         ARRAY CHIP 82         MKI           R8036         EXB38V820JV         ARRAY CHIP 82         MKI           R8037         ERJ3GEYJ223V         MGF CHIP 1/16W 22K         MKI           R8038         D0HB273ZA002         MGF CHIP 1/16W 27K         MKI           R8039         ERJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8040         ERJ3GEYJ3330V         MGF CHIP 1/16W 33         MKI           R8041         ERA3YED221V         CARBON CHIP 1/16W 33         MKI           R8042         ERJ3GEYJ330V         MGF CHIP 1/16W 3.3K         MKI           R8043         D0HB332ZA002         MGF CHIP 1/16W 150         MKI	R8025	ERJ3GEYJ271V	MGF CHIP 1/16W 270	MKI
R8028         ERJ3GEYJ271V         MGF CHIP 1/16W 270         MKI           R8029         ERJ3GEYJ102V         MGF CHIP 1/16W 1K         MKI           R8030         ERJ3GEYJ270V         MGF CHIP 1/16W 27         MKI           R8031         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8033         ERJ3GEYJ103V         MGF CHIP 1/16W 10K         MKI           R8034         EXB38V820JV         ARRAY CHIP 82         MKI           R8035         EXB38V820JV         ARRAY CHIP 82         MKI           R8036         EXB38V820JV         ARRAY CHIP 82         MKI           R8037         ERJ3GEYJ223V         MGF CHIP 1/16W 22K         MKI           R8038         D0HB273ZA002         MGF CHIP 1/16W 27K         MKI           R8039         ERJ3GEYJ330V         MGF CHIP 1/16W 1M         MKI           R8040         ERJ3GEYJ333V         MGF CHIP 1/16W 33         MKI           R8041         ERA3YED221V         CARBON CHIP 1/16W 220         MKI           R8042         ERJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8043         D0HB332ZA002         MGF CHIP 1/16W 3.3K         MKI           R8044         D0HB151ZA002         MGF CHIP 1/16W 150         MKI	R8026	ERJ3GEYJ271V	MGF CHIP 1/16W 270	MKI
R8029 ERJ3GEYJ102V MGF CHIP 1/16W 1K MKI R8030 ERJ3GEYJ270V MGF CHIP 1/16W 27 MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 EXB38V820JV ARRAY CHIP 82 MKI R8035 EXB38V820JV ARRAY CHIP 82 MKI R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 27K MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 33 MKI R8044 D0HB351ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8027	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	MKI
R8030 ERJ3GEYJ270V MGF CHIP 1/16W 27 MKI R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 EXB38V820JV ARRAY CHIP 82 MKI R8035 EXB38V820JV ARRAY CHIP 82 MKI R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 1M MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 33 MKI R8044 D0HB351ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8028	ERJ3GEYJ271V	MGF CHIP 1/16W 270	MKI
R8031 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 EXB38V820JV ARRAY CHIP 82 MKI R8035 EXB38V820JV ARRAY CHIP 82 MKI R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 1M MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 33 MKI R8044 D0HB351ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8029	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8033 ERJ3GEYJ103V MGF CHIP 1/16W 10K MKI R8034 EXB38V820JV ARRAY CHIP 82 MKI R8035 EXB38V820JV ARRAY CHIP 82 MKI R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 1M MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 33 MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8030	ERJ3GEYJ270V	MGF CHIP 1/16W 27	MKI
R8034         EXB38V820JV         ARRAY CHIP 82         MKI           R8035         EXB38V820JV         ARRAY CHIP 82         MKI           R8036         EXB38V820JV         ARRAY CHIP 82         MKI           R8037         ERJ3GEYJ223V         MGF CHIP 1/16W 22K         MKI           R8038         D0HB273ZA002         MGF CHIP 1/16W 27K         MKI           R8039         ERJ3GEYJ105V         MGF CHIP 1/16W 1M         MKI           R8040         ERJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8041         ERA3YED221V         CARBON CHIP 1/16W 220         MKI           R8042         ERJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8043         D0HB332ZA002         MGF CHIP 1/16W 3.3K         MKI           R8044         D0HB151ZA002         MGF CHIP 1/16W 150         MKI           R8046         ERJ3GEYJ153V         MGF CHIP 1/16W 15K         MKI	R8031	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	MKI
R8035 EXB38V820JV ARRAY CHIP 82 MKI R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 1M MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8033	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	MKI
R8036 EXB38V820JV ARRAY CHIP 82 MKI R8037 ERJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 1M MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8034	EXB38V820JV	ARRAY CHIP 82	MKI
R8037 BRJ3GEYJ223V MGF CHIP 1/16W 22K MKI R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 BRJ3GEYJ105V MGF CHIP 1/16W 1M MKI R8040 BRJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 BRA3YED221V CARBON CHIP 1/16W 220 MKI R8042 BRJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 BRJ3GEYJ153V MGF CHIP 1/16W 150 MKI	R8035	EXB38V820JV	ARRAY CHIP 82	MKI
R8038 D0HB273ZA002 MGF CHIP 1/16W 27K MKI R8039 ERJ3GEYJ105V MGF CHIP 1/16W 1M MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 15K MKI	R8036	EXB38V820JV	ARRAY CHIP 82	MKI
R8039 ERJ3GEYJ105V MGF CHIP 1/16W 1M MKI R8040 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8041 ERA3YED221V CARBON CHIP 1/16W 220 MKI R8042 ERJ3GEYJ330V MGF CHIP 1/16W 33 MKI R8043 D0HB332ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 ERJ3GEYJ153V MGF CHIP 1/16W 15K MKI	R8037	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	MKI
R8040         BRJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8041         BRA3YED221V         CARBON CHIP 1/16W 220         MKI           R8042         BRJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8043         D0HB332ZA002         MGF CHIP 1/16W 3.3K         MKI           R8044         D0HB151ZA002         MGF CHIP 1/16W 150         MKI           R8046         BRJ3GEYJ153V         MGF CHIP 1/16W 15K         MKI	R8038	D0HB273ZA002	MGF CHIP 1/16W 27K	MKI
R8041         BRA3YED221V         CARBON CHIP 1/16W 220         MKI           R8042         BRJ3GEYJ330V         MGF CHIP 1/16W 33         MKI           R8043         D0HB332ZA002         MGF CHIP 1/16W 3.3K         MKI           R8044         D0HB151ZA002         MGF CHIP 1/16W 150         MKI           R8046         BRJ3GEYJ153V         MGF CHIP 1/16W 15K         MKI	R8039	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	MKI
R8042     BRJ3GEYJ330V     MGF CHIP 1/16W 33     MKI       R8043     D0HB332ZA002     MGF CHIP 1/16W 3.3K     MKI       R8044     D0HB151ZA002     MGF CHIP 1/16W 150     MKI       R8046     BRJ3GEYJ153V     MGF CHIP 1/16W 15K     MKI	R8040	ERJ3GEYJ330V	MGF CHIP 1/16W 33	MKI
R8043 D0HB332ZA002 MGF CHIP 1/16W 3.3K MKI R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 BRJ3GEYJ153V MGF CHIP 1/16W 15K MKI	R8041	ERA3YED221V	CARBON CHIP 1/16W 220	MKI
R8044 D0HB151ZA002 MGF CHIP 1/16W 150 MKI R8046 BRJ3GEYJ153V MGF CHIP 1/16W 15K MKI	R8042	ERJ3GEYJ330V	MGF CHIP 1/16W 33	MKI
R8046 ERJ3GEYJ153V MGF CHIP 1/16W 15K MKI	R8043	D0HB332ZA002	MGF CHIP 1/16W 3.3K	MKI
	R8044	D0HB151ZA002	MGF CHIP 1/16W 150	MKI
R8048   D0HB822ZA002   MGF CHIP 1/16W 8.2K   MKI	R8046	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	MKI
·	R8048	D0HB822ZA002	MGF CHIP 1/16W 8.2K	MKI
R8049 ERJ3GEYJ101V MGF CHIP 1/16W 100 MKI	R8049	ERJ3GEYJ101V	MGF CHIP 1/16W 100	MKI
R8051 EXB38V330JV ARRAY CHIP 33 MKI	R8051	EXB38V330JV	ARRAY CHIP 33	MKI

Ref. No.	Part No.	Part Name & Description	Remark
R8052	ERJ3GEYJ203V	MGF CHIP 1/16W 20K	MKI
R8053	ERJ3GEYJ203V	MGF CHIP 1/16W 20K	MKI
R8054	ERJ3GEY0R00V	MGF CHIP 1/16W 0	MKI
R8055	ERJ3GEY0R00V	MGF CHIP 1/16W 0	MKI
R8056	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8057	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8058	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8059	ERJ1TYJ4R7U	MGF CHIP 1/16W 4.7K	MKI
R8060	D0HB103ZA002	MGF CHIP 1/16W 10K	MKI
R8061	D0HB202ZA002	MGF CHIP 1/16W 2K	MKI
R8065	ERJ3GEYJ6R8V	MGF CHIP 1/16W 6.8	MKI
R8066	ERJ3GEYJ101V	MGF CHIP 1/16W 100	MKI
R8067	ERJ3GEYJ101V	MGF CHIP 1/16W 100	MKI
R8068	ERJ3GEYJ101V	MGF CHIP 1/16W 100	MKI
R8401	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8402	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8403	ERA3YED102V	CARBON 1/16W 1K	MKI
R8404	ERA3YED102V	CARBON 1/16W 1K	MKI
R8405	D0HB302ZA002	MGF CHIP 1/16W 3K	MKI
R8406	D0HB302ZA002		MKI
		MGF CHIP 1/16W 3K MGF CHIP 1/16W 1K	
R8409	ERJ3GEYJ102V	·	MKI
R8410	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8418	D0HB181ZA002	MGF CHIP 1/16W 180	MKI
R8419	D0HB181ZA002	MGF CHIP 1/16W 180	MKI
R8420	ERJ3GEYJ121V	MGF CHIP 1/16W 120	MKI
R8421	ERJ3GEYJ560V	MGF CHIP 1/10W 5.6K	MKI
R8422	ERJ3GEYJ560V	MGF CHIP 1/10W 5.6K	MKI
R8423	D0HB750ZA003	MGF CHIP 1/16W 75	MKI
R8424	D0HB750ZA003	MGF CHIP 1/16W 75	MKI
R8425	ERJ3GEYJ680V	MGF CHIP 1/16W 68	MKI
R8426	ERJ3GEYJ330V	MGF CHIP 1/16W 33	MKI
R8427	ERJ3GEYJ330V	MGF CHIP 1/16W 33	MKI
R8431	ERJ6GEY0R00V	MGF CHIP 1/10W 0	MKI
R8501	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	MKI
R8502	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	MKI
R8503	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	MKI
R8504	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	MKI
R8518	ERJ3GEYF822V	MGF CHIP 1/16W 8.2K	MKI
R8520	ERJ3GEYF822V	MGF CHIP 1/16W 8.2K	MKI
R8533	ERJ3GEYF163V	MGF CHIP 1/16W 16K	MKI
R8534	ERJ3GEYJ622V	MGF CHIP 1/16W 6.2K	MKI
R8535	ERJ3GEYF163V	MGF CHIP 1/16W 16K	MKI
R8536	ERJ3GEYJ622V	MGF CHIP 1/16W 6.2K	MKI
R8557	ERJ3GEYJ471V	MGF CHIP 1/16W 470	MKI
R8558	ERJ3GEYJ471V	MGF CHIP 1/16W 470	MKI
R8565			
	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	MKI
R8566	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8567	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	MKI
R8568	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8570	ERJ3GEY0R00V	MGF CHIP 1/16W 0	MKI
R8571	ERJ3GEY0R00V	MGF CHIP 1/16W 0	MKI
R8572	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	MKI
R8801	ERJ3GEYJ101V	MGF CHIP 1/16W 100	MKI
R8807	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	MKI
R8808	ERJ3GEYJ101V	MGF CHIP 1/16W 100	MKI
R8809	ERJ8GEYJ1R0Z	MGF CHIP 1/8W 1	MKI
R8810	ERJ8GEYJ1R0Z	MGF CHIP 1/8W 1	MKI
R8811	ERJ8GEYJ1R0Z	MGF CHIP 1/8W 1	MKI
R8812	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	MKI
R8813	ERJ6GEYJ1R0V	MGF CHIP 1/10W 1.0	MKI
R8814	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	MKI
R8815	ERJ6GEYJ1R0V	MGF CHIP 1/10W 1.0	MKI
R8816	ERJ6GEYJ1R0V	MGF CHIP 1/10W 1.0	MKI
R8817	ERJ6GEYJ1R0V	MGF CHIP 1/10W 1.0	MKI
R8901	ERJ3GEYJ471V	MGF CHIP 1/16W 470	MKI
R8902	ERJ3GEYJ223V	MGF CHIP 1/16W 476	MKI
R8903	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	MKI
R8904	ERJ3GEYJ821V	MGF CHIP 1/16W 820	MKI
	ERJ3GEYJ331V	MGF CHIP 1/16W 330	MKI
	DD 13 0011 1001 1	MGF CHIP 1/16W 820	MKI
R8906	ERJ3GEYJ821V		
R8906 R8907	ERJ3GEYJ331V	MGF CHIP 1/16W 330	MKI
R8905 R8906 R8907 R8908 R8909			

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Ref. No.	Part No.	Part Name & Description	Remarks
R8910	ERJ12YJ270U	MGF CHIP 1/16W 27	MKI
R8911	ERJ12YJ270U	MGF CHIP 1/16W 27	MKI
R8912	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	MKI
R8913	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	MKI
R8914	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	MKI
R8916	ERJ3GEYJ3R9V	MGF CHIP 1/16W 3.9	MKI
R8917	ERJ3GEYJ100V	MGF CHIP 1/16W 10	MKI
R8918	ERJ3GEYJ100V	MGF CHIP 1/16W 10	MKI

R8917	ERJ3GEYJ100V	MGF CHIP 1/16W 10	MKI
R8918	ERJ3GEYJ100V	MGF CHIP 1/16W 10	MKI
		CAPACITORS	
Ref.	Part No.	Part Name & Description	Remarks
No.			
C8001	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8002	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8003	ECEA0JKA331I	ELECTROLYTIC 6.3V 330UF	MKI
C8004	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8006	ECJ1VB1H103K	C CHIP 50V 0.01UF	MKI
C8007	ECJ1VB1H103K	C CHIP 50V 0.01UF	MKI
C8009	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8010	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8011	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8012	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8013	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8014	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8015	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8016	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8017	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8018	ECEA0JKA331I	ELECTROLYTIC 6.3V 330UF	MKI
C8019	ECJ1VB1C104K	C CHIP 16V 0.1UF	MKI
C8020	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8021	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8022	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8023	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8024	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8025	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8026	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8027	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8028	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8029	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8030	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8031	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8032	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8033	ECJ1VB1E333K	C CHIP 25V 0.033UF	MKI
C8034	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8035	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8036	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8037	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8038	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
		C CHIP 6.3V 1UF	
C8039	ECJ1VB0J105K		MKI
C8040	ECJ1VB1H562K	C CHIP 50V 0.0056UF	MKI
C8041	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8042	ECJ1VB1E183K	C CHIP 25V 0.018UF	MKI
C8043	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8044	ECJ1VB1C104K	C CHIP 16V 0.1UF	MKI
C8045	ECJ1VB1C104K	C CHIP 16V 0.1UF	MKI
C8046	ECJ1VB0J105K	C CHIP 6.3V 1UF	
			MKI
C8047	ECJ1VB1C104K	C CHIP 16V 0.1UF	MKI
C8048	ECJ1VB1C104K	C CHIP 16V 0.1UF	MKI
C8049	ECJ1VB1C104K	C CHIP 16V 0.1UF	MKI
C8050	ECJ1VB1C104K	C CHIP 16V 0.1UF	MKI
C8051	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8052	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8053	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8054	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8055	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8056	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8057	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8058	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8059	ECJ1VC1H330J	C CHIP 50V 33PF	MKI
C8060	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8061	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8062	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8063	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8064	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
	•	•	-

Ref.	Part No.	Part Name & Description	Remarks
No.			
C8065	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8066	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8067	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8068	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8069	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8070	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8071	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI
C8072	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	MKI
C8073	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	MKI
C8074	ECJ1VB1H102K	C CHIP 50V 1000PF	MKI
C8076	ECJ1VC1H050C	C CHIP 50V 5PF	MKI
C8077	ECJ1VC1H150J	C CHIP 50V 15PF	MKI
C8078	ECJ1VC1H150J	C CHIP 50V 15PF	MKI
C8080	ECJ1VB1H102K	C CHIP 50V 1000PF	MKI
C8081	ECJ1VB1H102K	C CHIP 50V 1000PF	MKI
C8082	ECJ1VC1H101J	C CHIP 50V 100PF	MKI
C8083	ECJ1VC1H101J	C CHIP 50V 100PF	MKI
C8086	ECEA1CKA100	ELECTROLYTIC 16V 10UF	MKI
C8090	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	MKI
C8091	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	MKI
C8401	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	MKI
C8402	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8403	ECEA0JKA331I	ELECTROLYTIC 6.3V 330UF	MKI
C8404	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8412	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	MKI
C8413	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8414	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8415	ECJ1VC1H220J	C CHIP 50V 22PF	MKI
C8416	ECJ1VC1H220J	C CHIP 50V 22PF	MKI
C8417	ECJ1VC1H390J	C CHIP 50V 39PF	MKI
C8418	ECJ1VC1H390J	C CHIP 50V 39PF	MKI
C8419	ECJ1VC1H390J	C CHIP 50V 39PF	MKI
C8420	ECJ1VC1H390J	C CHIP 50V 39PF	MKI
C8421	ECJ1VC1H220J	C CHIP 50V 22PF	MKI
C8422	ECJ1VC1H220J	C CHIP 50V 22PF	MKI
C8423	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8424	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8425	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	MKI
C8504	ECJ1VB0J105K	C CHIP 6.3V 1UF	MKI
C8505	ECEA1CKA100	ELECTROLYTIC 16V 10UF	MKI
C8505	ECJ1VB0J105K		MKI
C8507	ECEA1CKA100	C CHIP 6.3V 1UF	MKI
C8507	ECEA1CKA100	ELECTROLYTIC 16V 10UF ELECTROLYTIC 16V 10UF	MKI
C8512	ECEA1CKA100	ELECTROLYTIC 16V 10UF	MKI
C8513	ECEA1CKA100	ELECTROLYTIC 16V 10UF	MKI
C8520	ECEA1AKA330I	ELECTROLYTIC 10V 33UF	MKI
C8521	ECEA1CKA101I	ELECTROLYTIC 16V 100UF	MKI
C8522	ECJ1VB1C104K	C CHIP 16V 0.1UF	MKI
C8523	ECEA1AKA330I	ELECTROLYTIC 10V 33UF	MKI
C8536	ECJ1VC1H101J	C CHIP 50V 100PF	MKI
C8537	ECJ1VC1H101J	C CHIP 50V 100PF	MKI
C8544	ECJ1VB1H102K	C CHIP 50V 1000PF	MKI
C8545	ECJ1VB1H102K	C CHIP 50V 1000PF	MKI
C8553	ECJ1VB1H472K	C CHIP 50V 4700PF	MKI
		C CHIP 50V 4700PF	MKI
	ECJ1VB1H472K		MKI
C8568	ECEA1CKA100	ELECTROLYTIC 16V 10UF	I MOZET
C8568 C8569	ECEA1CKA100 ECEA1CKA100	ELECTROLYTIC 16V 10UF	MKI
C8568 C8569 C8806	ECEA1CKA100 ECEA1CKA100 F1K1A106A005	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF	MKI
C8568 C8569 C8806	ECEA1CKA100 ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8568 C8569 C8806 C8808	ECEA1CKA100 ECEA1CKA100 F1K1A106A005	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF	MKI
C8568 C8569 C8806 C8808 C8809	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF	MKI MKI
C8568 C8569 C8806 C8808 C8809	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF	MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF	MKI MKI MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF	MKI MKI MKI MKI
C8555 C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812 C8813	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005 ECJ1VB1C104K	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 16V 0.1UF	MKI MKI MKI MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812 C8813	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005 ECJ1VB1C104K ECJ1VC1H391J	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 16V 0.1UF C CHIP 50V 390PF	MKI MKI MKI MKI MKI MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812 C8813 C8814 C8816	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005 ECJ1VB1C104K ECJ1VC1H391J F1K1A106A005	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 16V 0.1UF C CHIP 50V 390PF C CHIP 50V 390PF C CHIP 10V 10UF	MKI MKI MKI MKI MKI MKI MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812 C8813	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005 ECJ1VB1C104K ECJ1VC1H391J F1K1A106A005 ECJ1VB1H472K	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 16V 0.1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 50V 390PF C CHIP 10V 10UF	MKI MKI MKI MKI MKI MKI MKI MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812 C8813 C8814 C8816 C8817	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005 ECJ1VB1C104K ECJ1VC1H391J F1K1A106A005 ECJ1VB1H472K F1K1A106A005	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 16V 0.1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 50V 370PF C CHIP 10V 10UF C CHIP 50V 4700PF C CHIP 10V 10UF	MKI MKI MKI MKI MKI MKI MKI MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812 C8813 C8814 C8816 C8817 C8901	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005 ECJ1VB1C104K ECJ1VC1H391J F1K1A106A005 ECJ1VB1H472K F1K1A106A005 ECJ1VB1H5	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 16V 0.1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 50V 4700PF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF	MKI MKI MKI MKI MKI MKI MKI MKI MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812 C8813 C8814 C8816 C8817 C8901 C8903	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005 ECJ1VB1C104K ECJ1VC1H391J F1K1A106A005 ECJ1VB1H472K F1K1A106A005 ECJ1VB1H472K F1K1A106A005	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 16V 0.1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 50V 4700PF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 470PF	MKI MKI MKI MKI MKI MKI MKI MKI MKI MKI
C8568 C8569 C8806 C8808 C8809 C8810 C8811 C8812 C8813 C8814 C8816 C8817	ECEA1CKA100 ECEA1CKA100 F1K1A106A005 F1K1A106A005 ECJ1VB0J105K ECJ1VC1H391J F1K1A106A005 ECJ1VB1C104K ECJ1VC1H391J F1K1A106A005 ECJ1VB1H472K F1K1A106A005 ECJ1VB1H472K F1K1A106A005 ECJ1VB0J105K ECJ1VC1H471J ECJ1VB1C104K	ELECTROLYTIC 16V 10UF C CHIP 10V 10UF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 16V 0.1UF C CHIP 50V 390PF C CHIP 10V 10UF C CHIP 50V 4700PF C CHIP 10V 10UF C CHIP 6.3V 1UF C CHIP 50V 470PF C CHIP 50V 470PF C CHIP 16V 0.1UF	MKI MKI MKI MKI MKI MKI MKI MKI MKI MKI

Ref. No.	Part No.	Part Name & Description	Remarks
C8912	ECJ1VC1H680J	C CHIP 50V 68PF	MKI
C8913	ECJ1VC1H561J	C CHIP 50V 560PF	MKI
C8914	ECJ2FB0J106K	C CHIP 6.3V 10UF	MKI

#### FILTERS

Ref.	Part No.	Part Name & Description	Remarks
FL8402	F1Z1E2220002	FILTER	MKI
FL8501	J0HAAG000015	FILTER	MKI
FL8502	J0HAAG000015	FILTER	MKI

COILS

L8018 JOJCC000063 FILTER MKI L8019 JOJCC0000215 COIL MKI L8020 JOJCC0000215 COIL MKI L8021 JOJCC0000215 COIL MKI L8021 JOJCC0000215 COIL MKI L8401 JOJCC0000020 EMI FILTER CHIP MKI L8402 G1C270MA0021 COIL CHIP 27UH MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C330MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8410 JOJC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEYOROUV MGF CHIP 1/16W 0 MKI L8412 JOJHC0000068 EMI FILTER CHIP MKI L8413 JOJHC0000068 EMI FILTER CHIP MKI L8414 JOJHC0000068 EMI FILTER CHIP MKI L8415 JOJHC0000068 EMI FILTER CHIP MKI L8416 JOJBC0000010 CHIP EMI FILTER MKI L8419 JOJBC0000010 CHIP EMI FILTER MKI L8420 JOJBC0000010 CHIP EMI FILTER MKI L8421 JOJBC0000010 CHIP EMI FILTER MKI L8422 JOJBC0000010 CHIP EMI FILTER MKI L8424 JOJBC0000010 CHIP EMI FILTER MKI L8424 JOJBC0000010 CHIP EMI FILTER MKI L8424 JOJBC0000010 CHIP EMI FILTER MKI L8424 JOJBC0000010 CHIP EMI FILTER MKI L8424 JOJBC0000010 CHIP EMI FILTER MKI L8424 JOJBC0000010 CHIP EMI FILTER MKI L8424 JOJBC0000010 CHIP EMI FILTER MKI L8434 JOJCC0000063 FILTER MKI L8434 JOJCC0000063 FILTER MKI L8503 JOJBC0000010 CHIP EMI FILTER MKI L8503 JOJBC0000010 CHIP EMI FILTER MKI L8503 JOJBC0000010 CHIP EMI FILTER MKI L8517 JOJCC0000063 FILTER MKI L8518 JOJCC0000002 EMI FILTER CHIP	COILS			
L8002 JOJDC0000002 EMI FILTER CHIP MKI L8003 ERJ3GEYOROOV MGF CHIP 1/16W 0 MKI L8006 JOJDC00000215 COLL MKI L8006 JOJDC0000002 EMI FILTER CHIP MKI L8008 JOJDC0000002 EMI FILTER CHIP MKI L8008 JOJDC0000002 EMI FILTER CHIP MKI L8009 JOJDC0000002 EMI FILTER CHIP MKI L8010 JOJDC0000002 EMI FILTER CHIP MKI L8011 JOJCC00000215 COIL MKI L8011 JOJCC0000215 COIL MKI L8012 JOJCC0000215 COIL MKI L8013 JOJCC0000025 FILTER MKI L8014 JOJCC0000063 FILTER MKI L8015 JOJCC0000063 FILTER MKI L8016 JOJCC0000063 FILTER MKI L8019 JOJCC0000063 FILTER MKI L8010 JOJCC00000215 COIL MKI L8011 JOJCC00000215 COIL MKI L8012 JOJCC00000215 COIL MKI L8014 JOJCC0000063 FILTER MKI L8015 JOJCC0000063 FILTER MKI L8016 JOJCC00000215 COIL MKI L8017 JOJCC00000215 COIL MKI L8020 JOJCC00000215 COIL MKI L8040 JOJCC00000215 COIL MKI L8040 JOJCC00000215 COIL MKI L8402 JOJCC00000215 COIL MKI L8403 GIC270MA0021 COIL CHIP 27UH MKI L8404 GIC330MA0021 COIL CHIP 27UH MKI L8404 GIC330MA0021 COIL CHIP 27UH MKI L8404 GIC330MA0021 COIL CHIP 27UH MKI L8404 GIC330MA0021 COIL CHIP 27UH MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8408 JOJCC000000 EMI FILTER CHIP MKI L8411 BRJ3GEYOROOV MGF CHIP 1/16W O MKI L8413 JOJCC000000 CHIP EMI FILTER CHIP MKI L8414 JOJCC000006 EMI FILTER CHIP MKI L8415 JOJHC000006 EMI FILTER CHIP MKI L8416 JOJCC000001 CHIP EMI FILTER MKI L8420 JOJCC000001 CHIP EMI FILTER MKI L8421 JOJCC000001 CHIP EMI FILTER MKI L8422 JOJCC000001 CHIP EMI FILTER MKI L8423 JOJCC000001 CHIP EMI FILTER MKI L8424 JOJCC000006 EMI FILTER CHIP MKI L8425 JOJCC000001 CHIP EMI FILTER MKI L8421 JOJCC000001 CHIP EMI FILTER MKI L8423 JOJCC000001 CHIP EMI FILTER MKI L8424 JOJCC000001 CHIP EMI FILTER MKI L8423 JOJCC000001 CHIP EMI FILTER MKI L8434 JOJCC000006 FILTER MKI L8515 JOJCC0000002 EMI FILTER CHIP	1	Part No.	Part Name & Description	Remarks
L8003 ERJ3GEYOROOV MGF CHIP 1/16W 0 MKI L8005 JOJDCO000002 EMI FILTER CHIP MKI L8006 JOJCCO000215 COIL MKI L8007 JOJDCO000002 EMI FILTER CHIP MKI L8008 JOJDCO000002 EMI FILTER CHIP MKI L8009 JOJDCO000002 EMI FILTER CHIP MKI L8009 JOJDCO000002 EMI FILTER CHIP MKI L8010 JOJCCO000215 COIL MKI L8011 JOJCCO000215 COIL MKI L8013 JOJCCO000215 COIL MKI L8014 JOJCCO000215 COIL MKI L8015 JOJCCO000063 FILTER MKI L8015 JOJCCO000063 FILTER MKI L8016 JOJCCO000063 FILTER MKI L8017 JOJCCO000063 FILTER MKI L8018 JOJCCO000063 FILTER MKI L8019 JOJCCO000063 FILTER MKI L8019 JOJCCO000063 FILTER MKI L8019 JOJCCO000063 FILTER MKI L8019 JOJCCO000063 FILTER MKI L8019 JOJCCO000063 FILTER MKI L8019 JOJCCO000063 FILTER MKI L8019 JOJCCO000061 COIL MKI L8020 JOJCCO0000215 COIL MKI L8020 JOJCCO0000215 COIL MKI L8021 JOJCCO0000215 COIL MKI L8020 JOJCCO000015 COIL MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C330MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8408 JOJDCO000002 EMI FILTER CHIP MKI L8408 JOJDCO000002 EMI FILTER CHIP MKI L8401 G1C370MA0021 COIL CHIP 27UH MKI L8403 JOJCCO000068 EMI FILTER CHIP MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C30MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8408 JOJDCO000002 EMI FILTER CHIP MKI L8413 JOJHCO000008 EMI FILTER CHIP MKI L8414 GJJGCO000008 EMI FILTER CHIP MKI L8415 JOJHCO000008 EMI FILTER CHIP MKI L8416 JOJBCO000010 CHIP EMI FILTER MKI L8417 JOJBCO000010 CHIP EMI FILTER MKI L8418 JOJBCO000010 CHIP EMI FILTER MKI L8420 JOJBCO000010 CHIP EMI FILTER MKI L8421 JOJBCO000010 CHIP EMI FILTER MKI L8422 JOJBCO000010 CHIP EMI FILTER MKI L8434 JOJCCO000063 FILTER MKI L8434 JOJCCO000063 FILTER MKI L8435 JOJBCO000010 CHIP EMI FILTER MKI L8434 JOJCCO000063 FILTER MKI L8435 JOJBCO000010 CHIP EMI FILTER MKI L8436 JOJBCO000010 CHIP EMI FILTER MKI L8503 JOJBCO000010 CHIP EMI FILTER MKI	L8001	J0JCC0000117	EMI FILTER CHIP	MKI
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L8010 J0JHC0000027 CHIP EMI FILTER MKI L8011 J0JCC0000215 COIL MKI L8012 J0JCC0000215 COIL MKI L8013 J0JCC0000215 COIL MKI L8014 J0JCC0000063 FILTER MKI L8015 J0JCC0000063 FILTER MKI L8016 J0JCC0000063 FILTER MKI L8017 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8019 J0JCC0000063 FILTER MKI L8010 J0JCC00000215 COIL MKI L8020 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8401 J0JDC000002 EMI FILTER CHIP MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C370MA0021 COIL CHIP 27UH MKI L8406 G3C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEY0ROUV MGF CHIP 1/16W 0 MKI L8412 J0JHC0000068 EMI FILTER CHIP MKI L8413 J0JHC0000068 EMI FILTER CHIP MKI L8414 J0JBC0000010 CHIP EMI FILTER MKI L8415 J0JHC0000068 EMI FILTER CHIP MKI L8416 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8420 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8425 J0JBC0000010 CHIP EMI FILTER MKI L8431 J0JCC0000063 FILTER MKI L8431 J0JCC0000063 FILTER MKI L8431 J0JCC0000063 FILTER MKI L8431 J0JCC0000063 FILTER MKI L8431 J0JCC0000063 FILTER MKI L85517 J0JCC0000063 FILTER MKI L85518 J0JDC0000000 EMI FILTER CHIP	L8008	J0JDC0000002	EMI FILTER CHIP	MKI
L8011 J0JCC0000215 COIL MKI L8012 J0JCC0000215 COIL MKI L8013 J0JCC0000215 COIL MKI L8014 J0JCC0000063 FILTER MKI L8015 J0JCC0000063 FILTER MKI L8016 J0JCC0000063 FILTER MKI L8017 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8019 J0JCC0000063 FILTER MKI L8010 J0JCC0000063 FILTER MKI L8010 J0JCC0000215 COIL MKI L8020 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L84021 J0JCC000021 COIL CHIP 27UH MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8409 G1C270MA0021 COIL CHIP 27UH MKI L8401 G1C30MA0021 COIL CHIP 27UH MKI L8404 G1C30MA0021 COIL CHIP 27UH MKI L8405 G1C30MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEY0ROUV MGF CHIP 1/16W 0 MKI L8412 J0JHC0000068 EMI FILTER CHIP MKI L8413 J0JHC0000068 EMI FILTER CHIP MKI L8414 J0JBC0000010 CHIP EMI FILTER MKI L8418 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8420 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8431 J0JCC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8435 J0JBC0000010 CHIP EMI FILTER MKI L8436 J0JBC0000010 CHIP EMI FILTER MKI L8437 J0JCC0000063 FILTER MKI L85517 J0JCC0000063 FILTER MKI L85518 J0JDC0000002 EMI FILTER CHIP	L8009	J0JDC0000002	EMI FILTER CHIP	MKI
L8012 J0JCC0000215 COIL MKI L8013 J0JCC0000063 FILTER MKI L8014 J0JCC0000063 FILTER MKI L8016 J0JCC0000063 FILTER MKI L8017 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8019 J0JCC0000063 FILTER MKI L8019 J0JCC0000215 COIL MKI L8020 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L84021 J0JCC0000215 COIL MKI L84021 J0JCC0000215 COIL MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C270MA0021 COIL CHIP 27UH MKI L8405 G1C330MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C370MA0021 COIL CHIP 27UH MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8410 J0JDC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEY0R00V MGF CHIP 1/16W 0 MKI L8412 J0JHC0000068 EMI FILTER CHIP MKI L8413 J0JHC0000068 EMI FILTER CHIP MKI L8414 J0JBC0000010 CHIP EMI FILTER MKI L8418 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8423 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8431 J0JCC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8435 J0JBC0000010 CHIP EMI FILTER MKI L8434 J0JCC0000063 FILTER MKI L8435 J0JBC0000010 CHIP EMI FILTER MKI L8436 J0JBC0000010 CHIP EMI FILTER MKI L8437 J0JCC0000063 FILTER MKI L8438 J0JCC0000063 FILTER MKI L85517 J0JCC0000062 EMI FILTER CHIP	L8010	ЈОЈНСООООО27	CHIP EMI FILTER	MKI
L8013 J0JCC0000215 COIL MKI L8014 J0JCC0000063 FILTER MKI L8015 J0JCC0000063 FILTER MKI L8016 J0JCC0000063 FILTER MKI L8017 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8019 J0JCC0000063 FILTER MKI L8019 J0JCC0000215 COIL MKI L8020 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8402 J0JCC0000215 COIL MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C370MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C330MA0021 COIL CHIP 27UH MKI L8408 J0JDC000002 EMI FILTER CHIP MKI L8418 J0JDC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEY0ROVV MGF CHIP 1/16W 0 MKI L8411 ERJ3GEY0ROVV MGF CHIP 1/16W 0 MKI L8412 J0JHC0000068 EMI FILTER CHIP MKI L8413 J0JHC0000018 EMI FILTER CHIP MKI L8414 J0JBC0000010 CHIP EMI FILTER MKI L8415 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8420 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8425 J0JBC0000010 CHIP EMI FILTER MKI L8426 J0JBC0000010 CHIP EMI FILTER MKI L8427 J0JBC0000010 CHIP EMI FILTER MKI L8428 J0JBC0000010 CHIP EMI FILTER MKI L8431 J0JCC0000063 FILTER MKI L8431 J0JCC0000063 FILTER MKI L8431 J0JCC0000063 FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI	L8011	J0JCC0000215	COIL	MKI
L8014 J0JCC0000063 FILTER MKI L8015 J0JCC0000063 FILTER MKI L8016 J0JCC0000063 FILTER MKI L8017 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8019 J0JCC0000063 FILTER MKI L8019 J0JCC00000215 COIL MKI L8020 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8021 J0JCC0000022 EMI FILTER CHIP MKI L8401 J0JDC0000002 EMI FILTER CHIP MKI L8402 G1C270MA0021 COIL CHIP 27UH MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C370MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8410 J0JC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEYOROV MGF CHIP 1/16W 0 MKI L8411 ERJ3GEYOROV MGF CHIP 1/16W 0 MKI L8413 J0JHC0000068 EMI FILTER CHIP MKI L8414 J0JHC0000068 EMI FILTER CHIP MKI L8415 J0JHC0000068 EMI FILTER CHIP MKI L8415 J0JHC0000068 EMI FILTER CHIP MKI L8416 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8420 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8423 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8425 J0JBC0000010 CHIP EMI FILTER MKI L8426 J0JBC0000010 CHIP EMI FILTER MKI L8427 J0JBC0000010 CHIP EMI FILTER MKI L8428 J0JBC0000010 CHIP EMI FILTER MKI L8429 J0JHC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8435 J0JCC0000063 FILTER MKI L8436 J0JCC0000063 FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JCC0000063 FILTER MKI L8517 J0JCC0000063 FILTER MKI	L8012	J0JCC0000215	COIL	MKI
L8015 J0JCC0000063 FILTER MKI L8016 J0JCC0000063 FILTER MKI L8017 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8019 J0JCC0000215 COIL MKI L8020 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8401 J0JC0000002 EMI FILTER CHIP MKI L8402 G1C270MA0021 COIL CHIP 27UH MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C330MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8410 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEY0ROV MGF CHIP 1/16W 0 MKI L8412 J0JHC0000068 EMI FILTER CHIP MKI L8413 J0JHC0000068 EMI FILTER CHIP MKI L8415 J0JBC0000010 CHIP EMI FILTER HIP L8418 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8420 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8425 J0JBC0000010 CHIP EMI FILTER MKI L8426 J0JBC0000010 CHIP EMI FILTER MKI L8427 J0JBC0000010 CHIP EMI FILTER MKI L8428 J0JBC0000010 CHIP EMI FILTER MKI L8434 J0JCC0000063 FILTER MKI L8435 J0JBC0000010 CHIP EMI FILTER MKI L8436 J0JBC0000010 CHIP EMI FILTER MKI L8437 J0JCC0000063 FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER CHIP	L8013	J0JCC0000215	COIL	MKI
L8016 J0JCC0000063 FILTER MKI L8017 J0JCC0000063 FILTER MKI L8018 J0JCC0000063 FILTER MKI L8019 J0JCC00000215 COIL MKI L8020 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8021 J0JCC0000022 EMI FILTER CHIP MKI L8402 G1C270MA0021 COIL CHIP 27UH MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C270MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C370MA0021 COIL CHIP 27UH MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEYOROVV MGF CHIP 1/16W 0 MKI L8412 J0JHC0000068 EMI FILTER CHIP MKI L8413 J0JHC0000068 EMI FILTER CHIP MKI L8414 J0JBC0000010 CHIP EMI FILTER MKI L8418 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8420 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8423 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8431 J0JCC0000063 FILTER MKI L8431 J0JCC0000063 FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8504 J0JCC0000063 FILTER MKI L8505 J0JCC0000063 FILTER MKI L8507 J0JCC0000063 FILTER MKI	L8014	J0JCC0000063	FILTER	MKI
L8017       J0JCC0000063       FILTER       MKI         L8018       J0JCC00000215       COIL       MKI         L8020       J0JCC0000215       COIL       MKI         L8021       J0JCC0000215       COIL       MKI         L8401       J0JCC000002       EMI FILTER CHIP       MKI         L8402       G1C270MA0021       COIL CHIP 27UH       MKI         L8403       G1C270MA0021       COIL CHIP 27UH       MKI         L8404       G1C330MA0021       COIL CHIP 27UH       MKI         L8405       G1C330MA0021       COIL CHIP 27UH       MKI         L8406       G1C270MA0021       COIL CHIP 27UH       MKI         L8407       G1C270MA0021       COIL CHIP 27UH       MKI         L8408       J0JDC000001       COIL CHIP 27UH       MKI         L8409       G1C270MA0021       COIL CHIP 27UH       MKI         L8409       G1C270MA0021       COIL CHIP 27UH       MKI         L8409       J0JEC0000002       EMI FILTER CHIP       MKI         L8410       J0JEC0000002       EMI FILTER CHIP       MKI         L8411       ERJ3GEYOROV       MGF CHIP 1/16W 0       MKI         L8415       J0JEC0000010       CHIP EMI FIL	L8015	J0JCC0000063	FILTER	MKI
L8018         JOJCC0000063         FILTER         MKI           L8019         JOJCC0000215         COIL         MKI           L8020         JOJCC0000215         COIL         MKI           L8021         JOJCC0000215         COIL         MKI           L8401         JOJCC0000022         EMI FILTER CHIP         MKI           L8402         G1C270MA0021         COIL CHIP 27UH         MKI           L8403         G1C270MA0021         COIL CHIP 27UH         MKI           L8404         G1C330MA0021         COIL CHIP 27UH         MKI           L8405         G1C270MA0021         COIL CHIP 27UH         MKI           L8406         G1C270MA0021         COIL CHIP 27UH         MKI           L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         JOJDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEYOROUV         MGF CHIP 1/16W 0         MKI           L8412         JOJHC0000068         EMI FILTER CHIP         MKI           L8413         JOJHC0000068         EMI FILTER CHIP         MKI           L8416         JOJBC0000010         CHIP EMI FILTER         MKI           L8418         JOJBC0000010         C	L8016	J0JCC0000063	FILTER	MKI
L8019 J0JCC0000215 COIL MKI L8020 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8021 J0JCC0000215 COIL MKI L8401 J0JDC0000002 EMI FILTER CHIP MKI L8402 G1C270MA0021 COIL CHIP 27UH MKI L8403 G1C270MA0021 COIL CHIP 27UH MKI L8404 G1C330MA0021 COIL CHIP 27UH MKI L8405 G1C330MA0021 COIL CHIP 27UH MKI L8406 G1C270MA0021 COIL CHIP 27UH MKI L8407 G1C270MA0021 COIL CHIP 27UH MKI L8408 J0JDC0000002 EMI FILTER CHIP MKI L8411 ERJ3GEYOROUV MGF CHIP 1/16W 0 MKI L8412 J0JHC0000068 EMI FILTER CHIP MKI L8413 J0JHC0000068 EMI FILTER CHIP MKI L8415 J0JHC0000068 EMI FILTER CHIP MKI L8416 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8420 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8434 J0JCC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8518 J0JCC0000063 FILTER MKI L8518 J0JCC0000063 FILTER MKI	L8017	J0JCC0000063	FILTER	MKI
L8020         J0JCC0000215         COIL         MKI           L8021         J0JCC0000215         COIL         MKI           L8401         J0JCC0000022         EMI FILTER CHIP         MKI           L8402         G1C270MA0021         COIL CHIP 27UH         MKI           L8403         G1C270MA0021         COIL CHIP 27UH         MKI           L8404         G1C330MA0021         COIL CHIP 27UH         MKI           L8405         G1C330MA0021         COIL CHIP 27UH         MKI           L8406         G1C270MA0021         COIL CHIP 27UH         MKI           L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         J0JDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEYOROUV         MGF CHIP 1/16W 0         MKI           L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000008         EMI FILTER CHIP         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC000001	L8018	J0JCC0000063	FILTER	MKI
L8021 J0JCC0000215 COTL MKI  L8401 J0JDC0000002 EMI FILTER CHIP MKI  L8402 G1C270MA0021 COIL CHIP 27UH MKI  L8403 G1C270MA0021 COIL CHIP 27UH MKI  L8404 G1C330MA0021 COIL CHIP 27UH MKI  L8405 G1C330MA0021 COIL CHIP 27UH MKI  L8406 G1C270MA0021 COIL CHIP 27UH MKI  L8407 G1C270MA0021 COIL CHIP 27UH MKI  L8408 J0JDC0000002 EMI FILTER CHIP MKI  L8411 ERJ3GEYOROOV MGF CHIP 1/16W 0 MKI  L8412 J0JHC000068 EMI FILTER CHIP MKI  L8413 J0JHC000078 EMI FILTER CHIP MKI  L8414 J0JBC0000010 CHIP EMI FILTER MKI  L8418 J0JBC0000010 CHIP EMI FILTER MKI  L8419 J0JBC0000010 CHIP EMI FILTER MKI  L8420 J0JBC0000010 CHIP EMI FILTER MKI  L8421 J0JBC0000010 CHIP EMI FILTER MKI  L8422 J0JBC0000010 CHIP EMI FILTER MKI  L8424 J0JBC0000010 CHIP EMI FILTER MKI  L8424 J0JBC0000010 CHIP EMI FILTER MKI  L8424 J0JBC0000010 CHIP EMI FILTER MKI  L8424 J0JBC0000010 CHIP EMI FILTER MKI  L8424 J0JBC0000010 CHIP EMI FILTER MKI  L8431 J0JCC0000063 FILTER MKI  L8434 J0JCC0000063 FILTER MKI  L8503 J0JBC0000010 CHIP EMI FILTER MKI  L8503 J0JBC0000010 CHIP EMI FILTER MKI  L8503 J0JBC0000010 CHIP EMI FILTER MKI  L8517 J0JCC0000063 FILTER MKI  L8518 J0JCC0000063 FILTER MKI  L8518 J0JCC0000063 FILTER MKI  L8518 J0JCC0000002 EMI FILTER CHIP	L8019	J0JCC0000215	COIL	MKI
L8401         JOJDC0000002         EMT FILTER CHIP         MKI           L8402         G1C270MA0021         COIL CHIP 27UH         MKI           L8403         G1C270MA0021         COIL CHIP 27UH         MKI           L8404         G1C330MA0021         COIL CHIP 27UH         MKI           L8405         G1C330MA0021         COIL CHIP 27UH         MKI           L8406         G1C270MA0021         COIL CHIP 27UH         MKI           L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         JOJDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEYOROOV         MGF CHIP 1/16W 0         MKI           L8412         JOJHC0000068         EMI FILTER CHIP         MKI           L8413         JOJHC0000078         EMI FILTER CHIP         MKI           L8415         JOJHC0000078         EMI FILTER CHIP         MKI           L8415         JOJBC0000010         CHIP EMI FILTER         MKI           L8418         JOJBC0000010         CHIP EMI FILTER         MKI           L8421         JOJBC0000010         CHIP EMI FILTER         MKI           L8422         JOJBC0000010         CHIP EMI FILTER         MKI           L8424	L8020	J0JCC0000215	COIL	MKI
L8402         G1C270MA0021         COIL CHIP 27UH         MKI           L8403         G1C270MA0021         COIL CHIP 27UH         MKI           L8404         G1C330MA0021         COIL CHIP 27UH         MKI           L8405         G1C330MA0021         COIL CHIP 27UH         MKI           L8406         G1C270MA0021         COIL CHIP 27UH         MKI           L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         J0JDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEY0R00V         MGF CHIP 1/16W 0         MKI           L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000078         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424	L8021	J0JCC0000215	COIL	MKI
L8403         G1C270MA0021         COIL CHIP 27UH         MKI           L8404         G1C330MA0021         COIL CHIP 27UH         MKI           L8405         G1C330MA0021         COIL CHIP 27UH         MKI           L8406         G1C270MA0021         COIL CHIP 27UH         MKI           L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         J0JDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEY0R00V         MGF CHIP 1/16W 0         MKI           L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000008         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L84219         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC0000010         CHIP EMI FILTER         MKI           L8424	L8401	J0JDC0000002	EMI FILTER CHIP	MKI
L8404         G1C330MA0021         COIL CHIP 27UH         MKI           L8405         G1C330MA0021         COIL CHIP 27UH         MKI           L8406         G1C270MA0021         COIL CHIP 27UH         MKI           L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         J0JDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEY0R00V         MGF CHIP 1/16W 0         MKI           L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000008         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8423         J0JC0000003         FILTER         MKI           L8431         <	L8402	G1C270MA0021	COIL CHIP 27UH	MKI
L8405         G1C330MA0021         COIL CHIP 27UH         MKI           L8406         G1C270MA0021         COIL CHIP 27UH         MKI           L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         J0JDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEY0R00V         MGF CHIP 1/16W 0         MKI           L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000068         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC0000010         CHIP EMI FILTER         MKI           L8431         J0JCC0000063         FILTER         MKI           L8434	L8403	G1C270MA0021	COIL CHIP 27UH	MKI
L8406         G1C270MA0021         COIL CHIP 27UH         MKI           L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         J0JDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEY0R00V         MGF CHIP 1/16W 0         MKI           L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000008         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8429         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC00000010         CHIP EMI FILTER         MKI           L8431         J0JCC0000063         FILTER         MKI           L8434         J0JCC0000063         FILTER         MKI           L8501         J0	L8404	G1C330MA0021	COIL CHIP 27UH	MKI
L8407         G1C270MA0021         COIL CHIP 27UH         MKI           L8408         J0JDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEY0R00V         MGF CHIP 1/16W 0         MKI           L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000008         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC00000010         CHIP EMI FILTER         MKI           L8431         J0JCC0000063         FILTER         MKI           L8434         J0JCC0000063         FILTER         MKI           L8501         J0JBC0000010         CHIP EMI FILTER         MKI           L8503         J	L8405	G1C330MA0021	COIL CHIP 27UH	MKI
L8408         JOJDC0000002         EMI FILTER CHIP         MKI           L8411         ERJ3GEY0R00V         MGF CHIP 1/16W 0         MKI           L8412         JOJHC0000068         EMI FILTER CHIP         MKI           L8413         JOJHC0000078         EMI FILTER CHIP         MKI           L8415         JOJHC0000068         EMI FILTER CHIP         MKI           L8416         JOJBC0000010         CHIP EMI FILTER         MKI           L8418         JOJBC0000010         CHIP EMI FILTER         MKI           L8419         JOJBC0000010         CHIP EMI FILTER         MKI           L8420         JOJBC0000010         CHIP EMI FILTER         MKI           L8421         JOJBC0000010         CHIP EMI FILTER         MKI           L8422         JOJBC0000010         CHIP EMI FILTER         MKI           L8424         JOJBC0000010         CHIP EMI FILTER         MKI           L8429         JOJHC0000078         EMI FILTER CHIP         MKI           L8431         JOJCC0000063         FILTER         MKI           L8434         JOJC0000063         FILTER         MKI           L8501         JOJBC0000010         CHIP EMI FILTER         MKI           L8503         JO	L8406	G1C270MA0021	COIL CHIP 27UH	MKI
L8411         ERJ3GEY0R00V         MGF CHIP 1/16W 0         MKI           L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000068         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC0000010         CHIP EMI FILTER         MKI           L8429         J0JHC00000078         EMI FILTER CHIP         MKI           L8431         J0JCC0000063         FILTER         MKI           L8501         J0JBC0000010         CHIP EMI FILTER         MKI           L8503         J0JBC0000010         CHIP EMI FILTER         MKI           L8517         J0JCC0000063         FILTER         MKI           L8518	L8407	G1C270MA0021	COIL CHIP 27UH	MKI
L8412         J0JHC0000068         EMI FILTER CHIP         MKI           L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000068         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC0000010         CHIP EMI FILTER         MKI           L8429         J0JHC0000078         EMI FILTER CHIP         MKI           L8431         J0JCC0000063         FILTER         MKI           L8434         J0JCC0000063         FILTER         MKI           L8501         J0JBC0000010         CHIP EMI FILTER         MKI           L8503         J0JBC0000010         CHIP EMI FILTER         MKI           L8517         J0JCC0000063         FILTER         MKI           L8518         J0JC0000000	L8408	J0JDC0000002	EMI FILTER CHIP	MKI
L8413         J0JHC0000078         EMI FILTER CHIP         MKI           L8415         J0JHC0000068         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC0000010         CHIP EMI FILTER         MKI           L8429         J0JHC0000078         EMI FILTER CHIP         MKI           L8431         J0JCC0000063         FILTER         MKI           L8434         J0JCC0000063         FILTER         MKI           L8501         J0JBC0000010         CHIP EMI FILTER         MKI           L8503         J0JBC0000010         CHIP EMI FILTER         MKI           L8517         J0JCC0000063         FILTER         MKI           L8518         J0JDC0000002         EMI FILTER CHIP         MKI	L8411	ERJ3GEY0R00V	MGF CHIP 1/16W 0	MKI
L8415         J0JHC0000068         EMI FILTER CHIP         MKI           L8416         J0JBC0000010         CHIP EMI FILTER         MKI           L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC0000010         CHIP EMI FILTER         MKI           L8429         J0JHC0000078         EMI FILTER CHIP         MKI           L8431         J0JCC0000063         FILTER         MKI           L8434         J0JCC0000063         FILTER         MKI           L8501         J0JBC0000010         CHIP EMI FILTER         MKI           L8503         J0JBC0000010         CHIP EMI FILTER         MKI           L8517         J0JCC0000063         FILTER         MKI           L8518         J0JDC0000002         EMI FILTER CHIP         MKI	L8412	J0JHC0000068	EMI FILTER CHIP	MKI
L8416 J0JBC0000010 CHIP EMI FILTER MKI L8418 J0JBC0000010 CHIP EMI FILTER MKI L8419 J0JBC0000010 CHIP EMI FILTER MKI L8420 J0JBC0000010 CHIP EMI FILTER MKI L8421 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8422 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8429 J0JHC0000078 EMI FILTER CHIP MKI L8431 J0JCC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8501 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8517 J0JCC0000063 FILTER MKI L8518 J0JCC0000006 EMI FILTER CHIP MKI	L8413	J0JHC0000078	EMI FILTER CHIP	MKI
L8418         J0JBC0000010         CHIP EMI FILTER         MKI           L8419         J0JBC0000010         CHIP EMI FILTER         MKI           L8420         J0JBC0000010         CHIP EMI FILTER         MKI           L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC0000010         CHIP EMI FILTER         MKI           L8429         J0JHC0000078         EMI FILTER CHIP         MKI           L8431         J0JCC0000063         FILTER         MKI           L8434         J0JCC0000063         FILTER         MKI           L8501         J0JBC0000010         CHIP EMI FILTER         MKI           L8503         J0JBC0000010         CHIP EMI FILTER         MKI           L8517         J0JCC0000063         FILTER         MKI           L8518         J0JDC0000002         EMI FILTER CHIP         MKI	L8415	J0JHC0000068	EMI FILTER CHIP	MKI
L8419         JOJBC0000010         CHIP EMI FILTER         MKI           L8420         JOJBC0000010         CHIP EMI FILTER         MKI           L8421         JOJBC0000010         CHIP EMI FILTER         MKI           L8422         JOJBC0000010         CHIP EMI FILTER         MKI           L8424         JOJBC00000010         CHIP EMI FILTER         MKI           L8429         JOJHC0000078         EMI FILTER CHIP         MKI           L8431         JOJCC0000063         FILTER         MKI           L8434         JOJCC0000063         FILTER         MKI           L8501         JOJBC0000010         CHIP EMI FILTER         MKI           L8503         JOJBC0000010         CHIP EMI FILTER         MKI           L8517         JOJCC0000063         FILTER         MKI           L8518         JOJC0000002         EMI FILTER CHIP         MKI	L8416	J0JBC0000010	CHIP EMI FILTER	MKI
L8420         JOJBC0000010         CHIP EMI FILTER         MKI           L8421         JOJBC0000010         CHIP EMI FILTER         MKI           L8422         JOJBC0000010         CHIP EMI FILTER         MKI           L8424         JOJBC00000010         CHIP EMI FILTER         MKI           L8429         JOJHC0000078         EMI FILTER CHIP         MKI           L8431         JOJCC0000063         FILTER         MKI           L8434         JOJCC0000063         FILTER         MKI           L8501         JOJBC0000010         CHIP EMI FILTER         MKI           L8503         JOJBC0000010         CHIP EMI FILTER         MKI           L8517         JOJCC0000063         FILTER         MKI           L8518         JOJC00000002         EMI FILTER CHIP         MKI	L8418	J0JBC0000010	CHIP EMI FILTER	MKI
L8421         J0JBC0000010         CHIP EMI FILTER         MKI           L8422         J0JBC0000010         CHIP EMI FILTER         MKI           L8424         J0JBC00000010         CHIP EMI FILTER         MKI           L8429         J0JHC00000078         EMI FILTER CHIP         MKI           L8431         J0JCC0000063         FILTER         MKI           L8434         J0JCC0000063         FILTER         MKI           L8501         J0JBC0000010         CHIP EMI FILTER         MKI           L8503         J0JBC0000010         CHIP EMI FILTER         MKI           L8517         J0JCC0000063         FILTER         MKI           L8518         J0JDC0000002         EMI FILTER CHIP         MKI	L8419	J0JBC0000010	CHIP EMI FILTER	MKI
L8422 J0JBC0000010 CHIP EMI FILTER MKI L8424 J0JBC0000010 CHIP EMI FILTER MKI L8429 J0JHC0000078 EMI FILTER CHIP MKI L8431 J0JCC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8501 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8517 J0JCC0000063 FILTER MKI L8518 J0JCC0000002 EMI FILTER CHIP MKI	L8420	J0JBC0000010	CHIP EMI FILTER	MKI
L8424 JOJBC0000010 CHIP EMI FILTER MKI L8429 JOJHC0000078 EMI FILTER CHIP MKI L8431 JOJCC0000063 FILTER MKI L8434 JOJCC0000063 FILTER MKI L8501 JOJBC0000010 CHIP EMI FILTER MKI L8503 JOJBC0000010 CHIP EMI FILTER MKI L8517 JOJCC0000063 FILTER MKI L8518 JOJCC0000002 EMI FILTER CHIP MKI	L8421	J0JBC0000010	CHIP EMI FILTER	MKI
L8429 J0JHC0000078 EMI FILTER CHIP MKI L8431 J0JCC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8501 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8517 J0JCC0000063 FILTER MKI L8518 J0JC00000002 EMI FILTER CHIP MKI	L8422	J0JBC0000010	CHIP EMI FILTER	MKI
L8431 J0JCC0000063 FILTER MKI L8434 J0JCC0000063 FILTER MKI L8501 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8517 J0JCC0000063 FILTER MKI L8518 J0JC0000002 EMI FILTER CHIP MKI	L8424	J0JBC0000010	CHIP EMI FILTER	MKI
L8434 J0JCC0000063 FILTER MKI L8501 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8517 J0JCC0000063 FILTER MKI L8518 J0JDC0000002 EMI FILTER CHIP MKI	L8429	J0JHC0000078	EMI FILTER CHIP	MKI
L8501 J0JBC0000010 CHIP EMI FILTER MKI L8503 J0JBC0000010 CHIP EMI FILTER MKI L8517 J0JCC0000063 FILTER MKI L8518 J0JDC0000002 EMI FILTER CHIP MKI	L8431	J0JCC0000063	FILTER	MKI
L8503 J0JBC0000010 CHIP EMI FILTER MKI L8517 J0JCC0000063 FILTER MKI L8518 J0JDC0000002 EMI FILTER CHIP MKI	L8434	J0JCC0000063	FILTER	MKI
L8517 J0JCC0000063 FILTER MKI L8518 J0JDC0000002 EMI FILTER CHIP MKI	L8501	J0JBC0000010	CHIP EMI FILTER	MKI
L8518 J0JDC0000002 EMI FILTER CHIP MKI	L8503	J0JBC0000010	CHIP EMI FILTER	MKI
	L8517	J0JCC0000063	FILTER	MKI
18901 TOTOCOCCOCCO PMT FILTER CUID	L8518	J0JDC0000002	EMI FILTER CHIP	MKI
HIS SOL   GOODCOOOOOZ   EMI FILITER CHIP	L8901	J0JDC0000002	EMI FILTER CHIP	MKI

#### CRYSTAL OSCILLATOR

Ref. No.	Part No.	Part Name & Description	Remarks	
x8001	ној270500066	CRYSTAL OSCILLATOR	MKI	ĺ

#### PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P8401	K1MN16A00071	CONNECTOR 16P	MKI
P8402	K1MR11A00017	CONNECTOR 11P	MKI
P8801	K1MN13B00062	CONNECTOR 13P	MKI
P8901	K1MN26B00076	CONNECTOR 26P	MKI

## 12.3.9. DVD SUB C.B.A.

#### SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW8952	K0L1BA000015	SWITCH	MKI
SW8953	K0L1BA000014	SWITCH	MKI